



New Product Reports

... For Timex and Commodore Computers

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Address all orders and correspondence to: 1702 Oak Knoll Dr., Alexandria, MN 56308 • 612/762-8847, 762-1631

TS2068: ADVANCED SYSTEM WITH A BIG FUTURE By Eben Brown

Here's a success story for all of you who like to see the American free enterprise system at work. We all know the first TIMEX computer was more than a toy. In fact, it was more computer than most people ever realized. But it got caught in the middle of the computer price wars of 1983 and was strangled... a tremendous defeat for TIMEX. Business gossip sheets like the Wall Street Journal were predicting that TIMEX was going to fold its computer division (They said that about Lee Iacocca and Chrysler, too... now very successful). In the spirit of free enterprise, guts, savvy, and just plain "Never say quit," TIMEX set themselves to the task of designing the best machine they could. They decided they'd rather be the best, not the cheapest. The result is the new TIMEX 2068 Professional computer.

Since its quiet release in November, the TS2068 has been an overwhelming success. With very little advertising, it's been tough producing enough of them to keep up with sales. Every computer magazine and trade journal that's tested it has given it rave reviews. And for good reason. It's capable of 16 color displays with up to 512 X 192 resolution. It has a full typewriter format keyboard with dual shifts, caps, and space bar. It has 72K of memory of which 24K is a sophisticated operating system and 48K is useable RAM. Its cartridge port can hold an additional 56K of programming. Its futuristic bank switching facility can handle up to 16 Megabytes of memory. This sort of memory is unprecedented... you haven't seen it in any other personal computer at ANY price. Programming the TS2068 is a cinch. It has the world famous Sinclair BASIC language... meaning one touch entry of commands along with extended functions not normally sold with a stock computer. For example, programming a sine wave on the TS2068 takes only 5 steps. It takes 15 steps on a Commodore 64. Concentric multicolored circles take 6 steps on the TS2068, 21 on the C-64. A Semi circle takes 2 steps, 16 on the Commodore 64. And, you don't have to wait until you run the program to find bugs. The TS2068 has automatic syntax error checking... it knows what commands you're supposed to give it and it tells you as you program!

The TS2068 has some remarkable visual capabilities. You can display up to 64 characters on the screen. The "screen" can be anything from a black and white or color TV to a green or amber monitor, to a composite video color monitor, to an RGB color/green monitor... it can handle the best monitors available, but since it doesn't have to, you can grow with it. There are sophisticated sound synthesis features, too. Up to 4 channels or sounds can be running at the same time, each somewhere in its own 8 possible octaves!

I tend to run off at the mouth a bit when I write about this machine... there's so much to tell. But, it'll have to be cut short to leave space for a description of the TS 2068 "System." It appears that TIMEX wanted to leave nothing to chance. This computer had to be so far ahead of things it couldn't fail.

The first part of the system is the expansion bus. For approximately \$120, this unit provides the interface and controller for up to 8 of the new microdrives, a standard Centronics Parallel Interface, a standard RS232 Interface with selectable baud rate, a standard Composite video port, a standard RGB port, networking capability for an up to 64 computer network, CP/M mode with optional 32K of additional RAM, and an auxiliary audio output jack. Essentially, the expansion bus permits you to connect your TS2068 to virtually any peripheral on the market.

Mass memory storage is another flexible part of the TS2068 system. Start out with the TS2020 Program recorder, only \$49.95. When you're ready, step up to the microdrives. These ultra high speed drives hold about 85K of storage and transfer 48K in approximately 9 seconds. You access files in 3.5 seconds. This is faster than many disk drives! The technology is in an advanced specially



1702 Oak Knoll Drive, Alexandria, MN 56308



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lubricated tape LOOP with stationary head. The drives are inexpensive (about \$80) small, (about the size of a hockey puck), and you can have up to 8 of them going at once!

TIMEX has selected the Mannesman-Tally full size letter quality printer. Rather than go with a cheap 12 character per second daisy wheel printer, they opted for a top quality, 80 character per second dot matrix. It's a little more expensive, but a whole lot better. For example, this printer uses a rectangular dot format that meets edge to edge. Combined with a high density matrix, you get characters so close to typewriter quality, you'd need a magnifying glass to tell the difference. So, you can use it for important correspondence. Because it's dot matrix, you can also use it for graphics. Like I say, TIMEX wanted to cover all bases! The TIMEX version of this printer will sell for around \$325. However, until that version comes out, you can order the Mannesman-Tally labled one from us... it comes in Centronics parallel and sells for \$399.95. See our printer section for details. Software development is being kept under

extreme secrecy. I know that TIMEX is ready with a word processor, CP/M compatibility, LOGO, FORTH, and an ASSEMBLER. They've been striking deals with eager software companies to develop TS2068 versions of other software, too. Things that'll make the TS2068 competitive with IBMs, Apples, and their newest introductions. But, I couldn't weasel any more information out of them on this. You see, the computer and program recorder are the only parts of the system currently available. The rest is scheduled to come out all at once in June. TIMEX doesn't want to dilute the impact of it all by announcing anything until it's ready. Sounds like a new TIMEX doesn't it? You're right!

It used to be that drug wholesalers distributed TIMEX computers to stores. As an indication of the new way TIMEX is doing things, they've selected E. Arthur Brown Company as a distributor/dealer. Now, they're looking for distributors and dealers who know the products and can give full service to their customers. They've set up pricing schedules designed to give full service

dealers and distributors just as much competitive edge as chain stores. From the looks of the new machine and the way TIMEX is handling it, I'd say they're going to be around for a long time. I think this new TIMEX 2068 is going to be the next "Apple"... and you know how long and fruitful a life THAT computer has had.

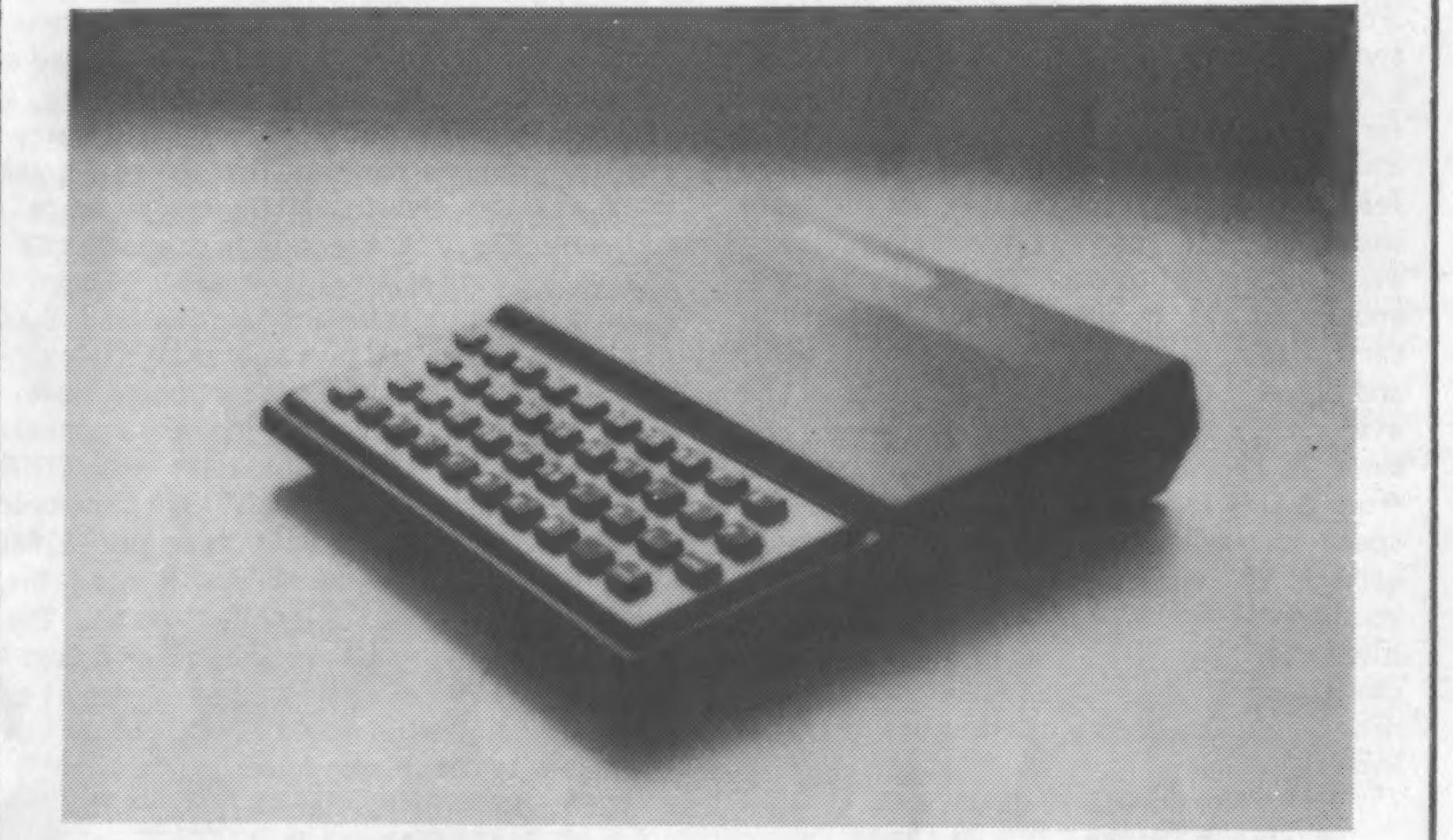
Now, you may be thinking of buying a computer. Before making a decision, take a look at what's being offered. There are alot of companies out there trying to be the CHEAPEST. Being cheapest means sacrificing research and development, advanced technology, quality, and workmanship. TIMEX is working on a higher standard of excellence. Why not a REAL computer? Remember, nobody was ever sorry he bought the best... use the order blank in this publication and order your TS2068 today!

#100-124 TS2068 71b. \$179.95

Keyboard Enhancements

TS1500 KEYBOARDS FOR THE TS1000/ZX81
Our newly designed Mark I Keybutton overlay is the exact same, molded rubber button type keyboard as is on the TIMEX 1500, only it's smaller... to fit the ZX81 or TS1000. The sensitivity and efficiency are exactly the same, only you don't have to buy a new computer to get them! Legends are printed right on the keys and board, just as they are on the TS1500. To install, you just peel off the backing and stick the Mark I onto your old membrane keyboard. No wiring or soldering! We even supply a blank overlay that you can label yourself for special applications like games, word processing, or spreadsheet work. Upgrade your TS1000/ZX81 to a TS1500 for a fraction of the cost of the new computer. Order the Mark I today. You'll be surprised at how inexpensive it is!
#100-325 MKI Overlay 1 lb. \$14.95

MKIV KEYBOARD KIT
For ZX81 and TIMEX 1000/1500 computers. The MKIV Kit is an economical way of getting a top quality, full stroke typewriter keyboard. The best part of the Kit is the keyswitches. They're the very same ones as are used on Hewlett-Packard and DEC computer keyboards. You get reliable contact with practically no wobble. The Keytops are gray with black and red sublimated legends. Sublimation impregnates the color right into the plastic making it virtually impossible to wear them off under normal use. The Kit includes the instructions, keyswitches, keytops, circuit board, and ribbon cables for connecting to your computer. Soldering is required. The case shown in the photo is no longer available. But you get 6 more keys than the cased version... wire them for special functions if you like. Make your own case to hold your computer,



Keyboard, memory... sounds like kind of a fun project!
#109-326 MKIV Kit 2 lb. \$34.95

PC-DOCUMENT FOR COMMODORE VIC/64
Our PC-Document Keyboard Overlays put programming references on your keyboard, where they belong. No more breaking away from your work to look something up. Instead, you need only glance at your keyboard where your PC-Document has everything neatly organized and displayed. Different sections of the board have references to BASIC functions, commands and statements, music programming, memory map, colors, sprite references, control keys and more. With a PC-Document, beginners become experts fast. Experts become more efficient. Order yours today... be sure to specify VIC 20 or C 64.
#220-325 VIC-PC 1 lb. \$12.95
#220-326 64-PC 1 lb. \$12.95

ADDON KEYPAD FOR COMMODORE VIC/64
If you use your Commodore VIC or 64 for alot of number crunching, spreadsheet analysis, or business accounting, this keypad is SO much easier than the standard keyboard. It's made by the same company that makes our MKIV Kit for TIMEX computers. The Keytops and keyswitches meet or beat the quality of the keys already on your Commodore computer. The ADDON wires directly to your present keyboard rather than plugging onto the back of the computer. This makes it totally compatible with all software. Other keypads may be more convenient to install, but they require special software... which may or may not be compatible with the software you use. See how the shape of the case matches the shape of your computer? The ADDON was made for your Commodore and looks like it, too! Note the keys included and their configuration from the photograph. You're used to handling numbers in this way on a calculator or adding machine... Why not set up your computer the same way? Order your ADDON Keypad today!
#225-325 ADDON Pad 3 lb. \$69.95

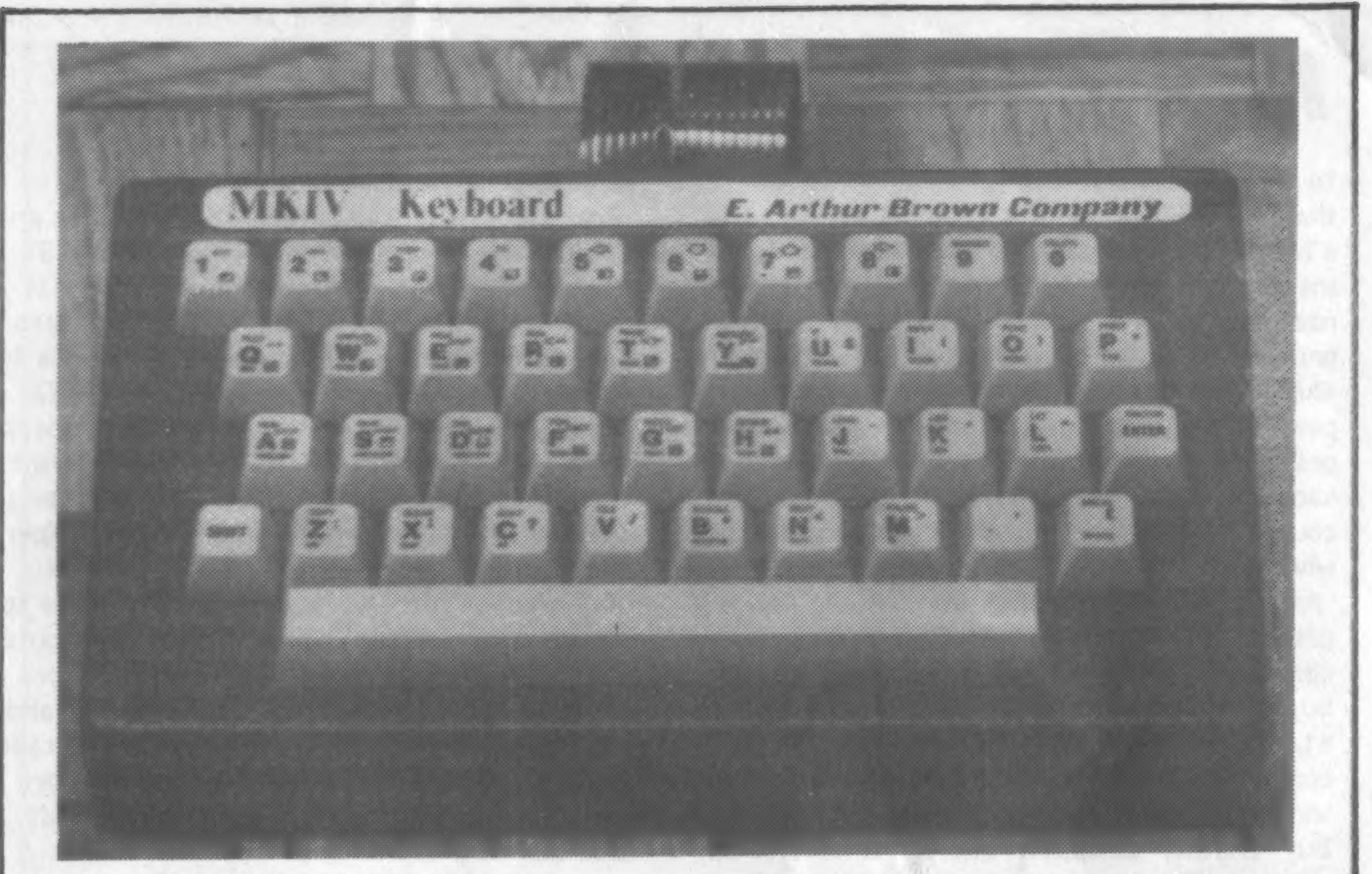
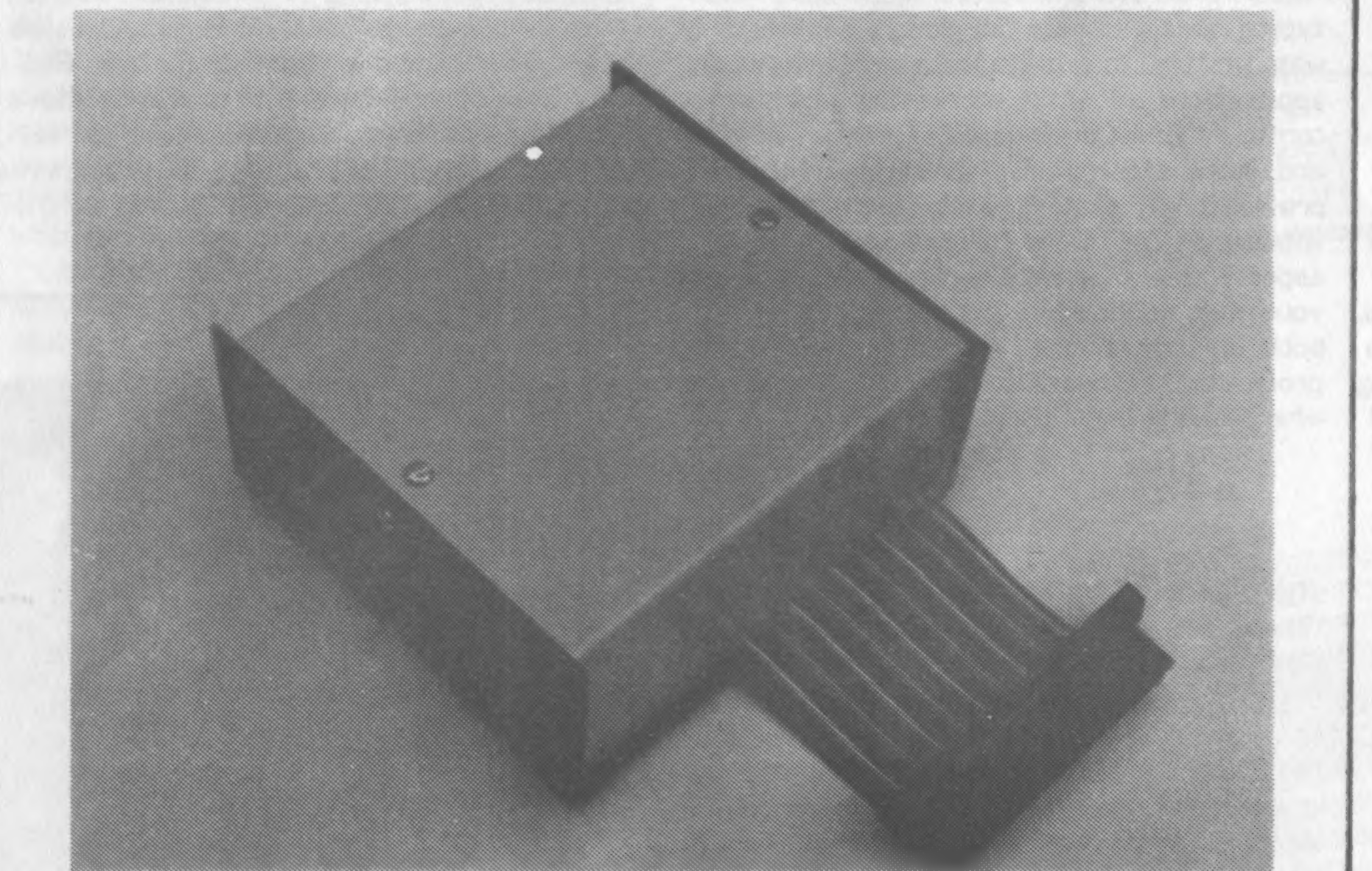
Great Memories

GREAT MEMORIES
For ZX81/TS1000/TS1500 Computers
Our memory modules can turn your TIMEX into one terrifically powerful computer!

TIMEX 1016 16K RAM
On ZX81/TS1000's, this RAM disables the 1-2K internal memory and replaces it with 16K. On TS1500's it adds to the already present 16K giving you a total of 32K! It's just a matter of plugging it on the back of your computer and you're ready to go.
#100-216 TS1016 1 lb. \$49.95

MHRY-REZ 64K RAM
The only TS1500-Compatible 64K
The only 64K in the world that works with the TS1500 computer! The MHRY-REZ 64K is for ZX81/TS1000 and TS1500 computers and features a switchable 8-16K region and high resolution graphics circuitry. It even has it's own ribbon cable for "rock stable" mounting on your computer. No wobble crashes with this unit! MHRY-REZ provides the full 64K of memory for your 280 microprocessor and the switchable 8-16K region makes it compatible with EPROM software and interfaces which also reside in those addresses. The high resolution circuitry allows you to do super clear graphics... 192 X 256 pixels. But, it also comes with high resolution software on cassette. You don't have to do elaborate USR and POKE programming routines. For example, to draw a circle, you press "C", enter the radius, and instantly a circle is drawn. Lines and other geometric shapes are just as easy. And, you can use these figures on four different screens. The computer can then switch rapidly between screens creating animated graphics! If you wish to get even more intricate with your MHRY-REZ, we recommend ordering the Advanced Software cassette. It's an even more sophisticated graphics package than the standard software. The important things to remember are that your MHRY-REZ 64K functions as a standard 64K when you want it to, it includes High Resolution Circuitry and it's the only 64K that works with all three, the ZX81, TS1000 and even the TS1500! Also available in Kit form which includes everything but the IC (Integrated Circuit) chips.
#220-264 MHRY-REZ 3 lb. \$149.95
#220-265 Adv. Sftwre. 1 lb. \$19.95
#220-266 MHRY-REZ Kit 3 lb. \$89.95

CLOSE OUT RAMS
We have in stock a limited number of 16K battery backed up RAMs. These RAMs will maintain power to your computer in the event of an electrical outage. They're compatible with ZX81 and TS1000 computers, have a through plug, and feature a housing that conforms to the shape of your computer. Regularly priced at \$58.95, we're closing them out at \$39.95. This offer is limited to the supplies we have on hand.
#102-216 MKIV 16K 2 lb. \$39.95



Keyboard, memory... sounds like kind of a fun project!
#109-326 MKIV Kit 2 lb. \$34.95

PC-DOCUMENT FOR COMMODORE VIC/64
Our PC-Document Keyboard Overlays put programming references on your keyboard, where they belong. No more breaking away from your work to look something up. Instead, you need only glance at your keyboard where your PC-Document has everything neatly organized and displayed. Different sections of the board have references to BASIC functions, commands and statements, music programming, memory map, colors, sprite references, control keys and more. With a PC-Document, beginners become experts fast. Experts become more efficient. Order yours today... be sure to specify VIC 20 or C 64.
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#220-326 64-PC 1 lb. \$12.95

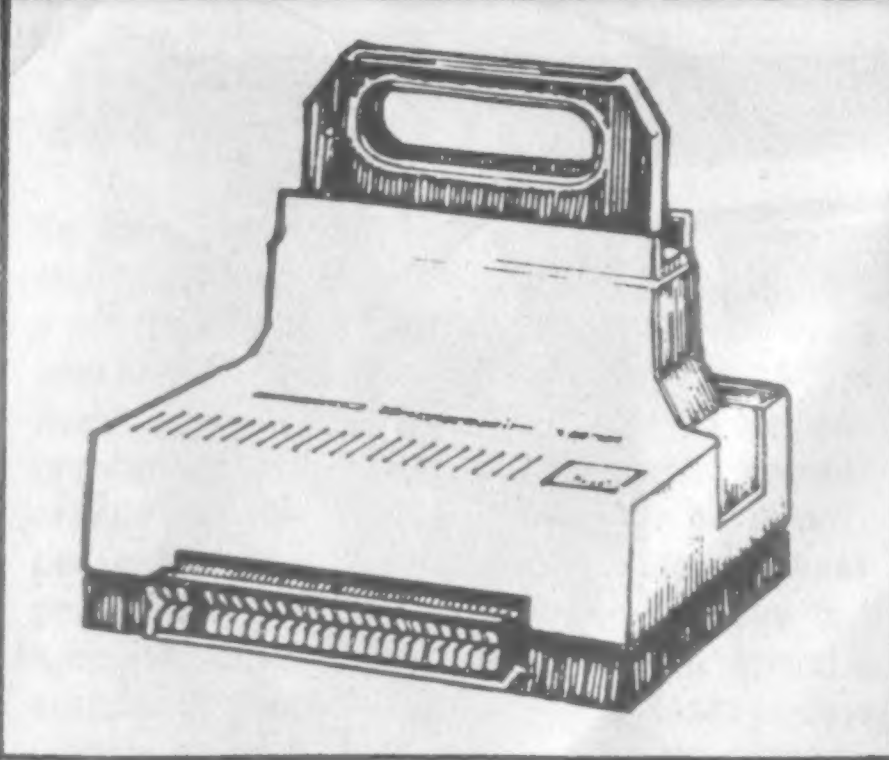
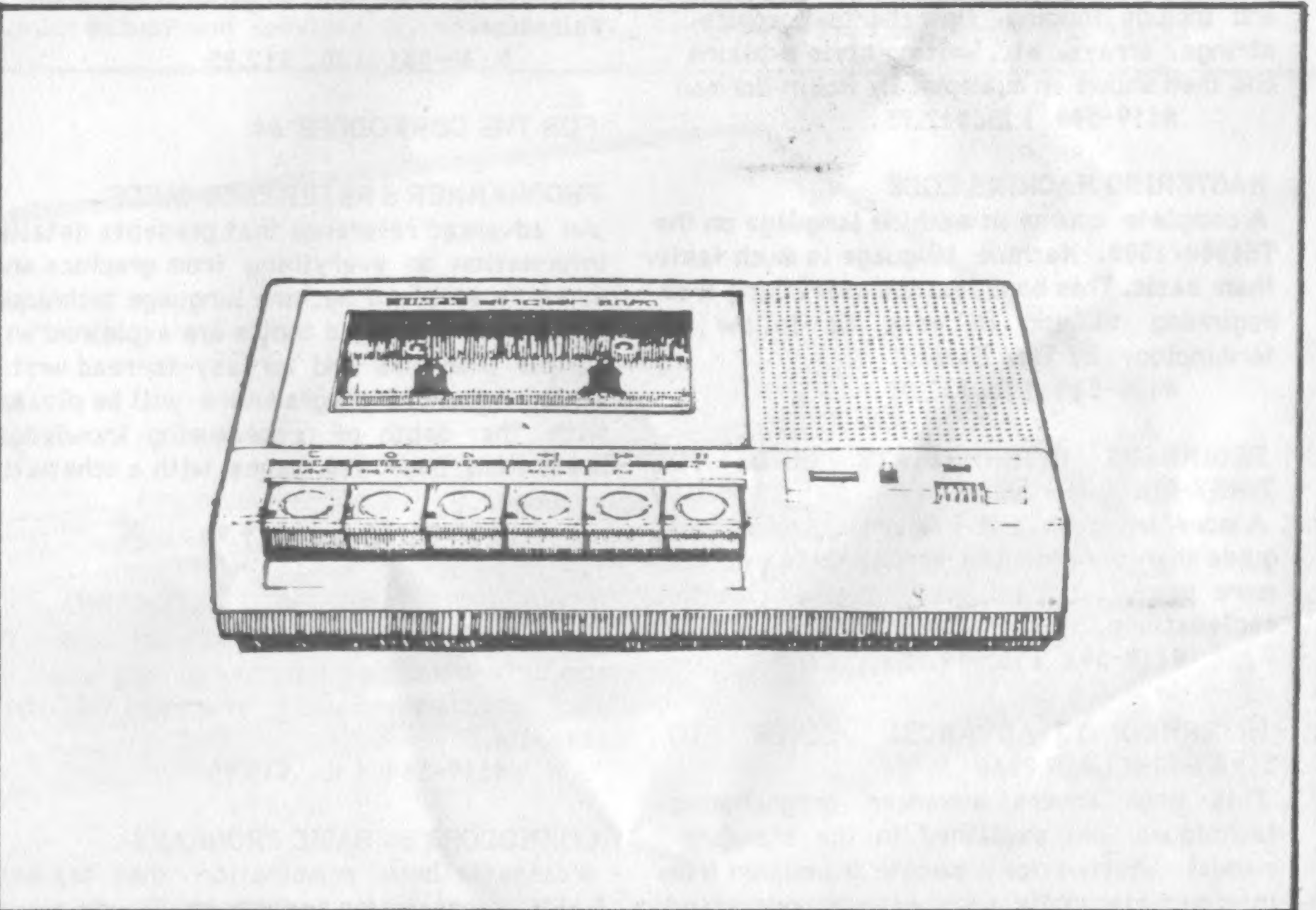
ADDON KEYPAD FOR COMMODORE VIC/64
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#225-325 ADDON Pad 3 lb. \$69.95



Mass Memory Storage

TIMEX 2020 PROGRAM RECORDER
While TIMEX computers are designed to operate with standard cassette recorders, the TS2020 recorder is designed specifically for TIMEX computers. It features automatic recording level adjustment for proper SAVE volumes and a Vu/Level indicator light to assist your volume adjustment for optimum LOADs. The 2020 also works fine for speech and music recording and playing and is priced in the range of a good standard cassette recorder. Customers who've had previous trouble LOADING and SAVEing, find the 2020 does it right every time!
#100-305 TS2020 2 lb. \$47.95
#100-308 AC Adaptor 1 lb. \$8.95

VIC 1530 DATA RECORDER
Inexpensive data and program storage for your Commodore VIC or 64. The 1530 plugs into the cassette port of your computer and gives reliable LOADs and SAVEs. It allows you to use cassette based software, or save your own programs and data to cassette.
#300-300 VIC 1530 Recorder 4 lb. \$94.95



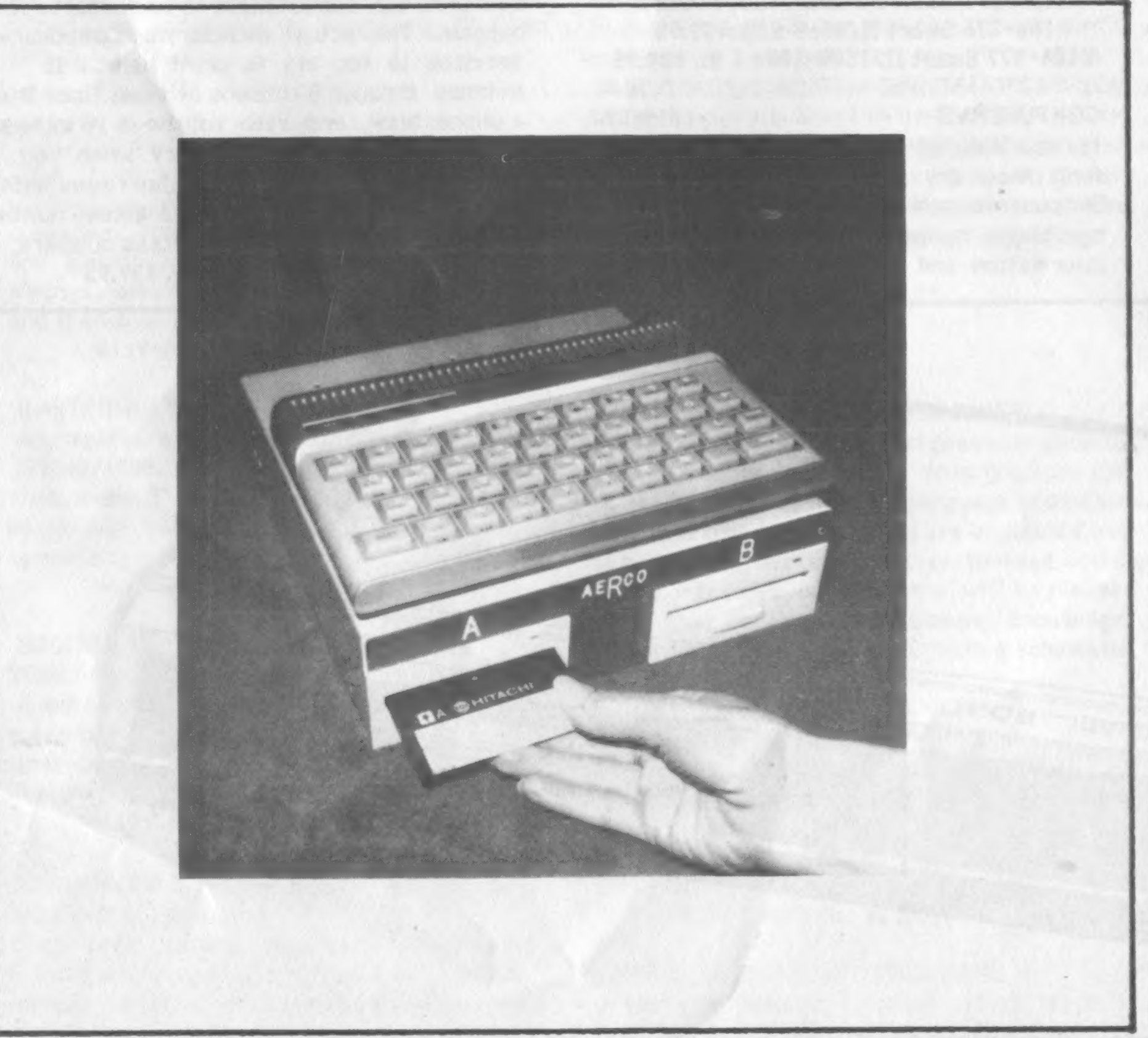
TIMEX 1510 COMMAND CARTRIDGE PLAYER
This unit allows you to play cartridge software on your ZX81, TS1000, and TS1500 computers. Just plug it onto the expansion port and plug the cartridges into it. The 1510 has a through-plug so you can attach your RAM and/or printer onto the back. Even a 1-2K computer can play 16K cartridge software with the 1510! The cartridge provides the memory for the program. Check our software section for compatible cartridge software.
#100-300 TS1510 2 lb. \$19.95

QSAVE HIGH SPEED CASSETTE STORAGE
For ZX81, TIMEX 1000, and TIMEX 1500 computers. QSAVE is software that changes the data transfer speed for faster LOADs and SAVEs on cassette recorders. For example, 16K of program/data normally takes 7-8 minutes to
#105-300 QSAVE Cassette V. 1 lb. \$38.95
#105-301 QSAVE EPROM V. 2 lb. \$59.95
#105-302 QSAVE Epm.Only 1 lb. \$24.95
#105-303 SPEEDLOAD 1 lb. \$59.95
#105-400 2 Port Ribbon Cble. 1 lb. \$19.95
#105-401 3 Port Ribbon Cble. 1 lb. \$24.95

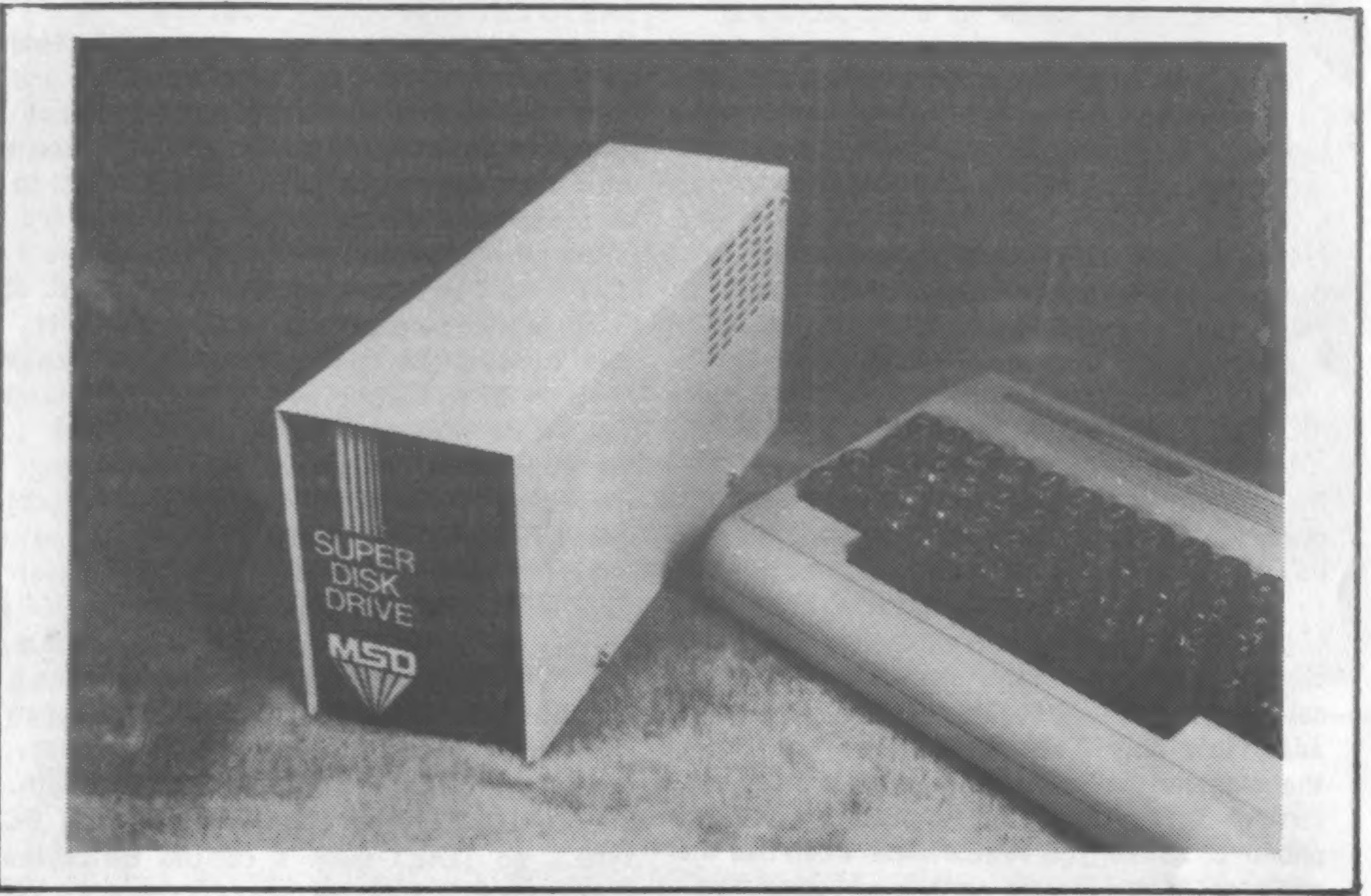


TS1000/1500 Mini Drives
We've finally found a disk system that everyone can use on their ZX81, TS1000, or TS1500. Our Mini Drives are the new 3 inch disk drives... small, but with plenty of memory room. Unlike earlier disk drives, these are easy to configure for your cassette based software. They save everything the same way your cassette does, only much much faster! These drives are compatible with our TS1000 Centronics Parallel Interface. A TS1500 CPI will be along shortly. Mindrives are NOT some Rube Goldberg set up that takes an electrical engineer to figure out! They're a finished commercial system that anyone can handle. They come complete with one drive, disk interface, power supply, housing, an instruction manual, and a manufacturer's guarantee of one full year on the interface and power supply. If you want dual drives, you can purchase an extra 3 inch drive which will fit neatly alongside the other in the housing.
#223-300 Mini Drive 20 lb. \$549.95
#223-301 Extra Drive 10 lb. \$250.00

TS2068 DISK DRIVE INTERFACE
Connect your TS2068 to any Shugart compatible disk drive. This new interface will be ready for shipment in April and is compatible with our TS2068 Centronics Parallel Interface. Buy it now and you can connect it to the Shugart drive of your choice. In June, we'll be offering a completely packaged disk drive system which will include the drive mechanism. Realize the potential of your TS2068 with a disk drive!
#232-305 2068 Dsk. Itfce. 2 lb. \$199.95



Disk Drive Excellence



Every now and then a new product design seems intended to last forever

Our new single and dual Superdrives for Commodore computers are a case in point. They're built around Industrial Quality Drive Mechanisms that were designed, tested, and proven to take more use and abuse than you'll ever give them. Unlike cheaper units, Superdrives won't break down after only a few month's use. You won't have to send them back and wait weeks and weeks for repairs to be completed. (According to the personal experience of Compute's Gazette magazine, the cheaper Commodore 1541 drives have a 57% failure rate!) Some of our customers have asked that we explain what is meant by "Industrial Quality." An example is the drive bands. The Commodore 1541 has one Aluminum band. When the 1541 drive overheats (it has a reputation for doing so), the aluminum band expands, slippage occurs, and drive failure results. The plastic housing enhances the problem, since it insulates and holds the heat in. Superdrives have three (3) Steel bands which are much less sensitive to expansion than aluminum, and the redundancy of three means the chance of slippage is practically nil. Overheating is also a never seen occurrence. The beige colored Steel housing acts as a large heat sink... drawing heat away, rather than holding it in. "Industrial Quality" means Superdrives are designed to stay on all day, day in and day out, without malfunction.

Superdrives have Futuristic Self Diagnostic Systems built right into them. How important is that data in your disk files? Can you afford to lose any of it through disk drive malfunctions? Of course not! Everytime you power up, your Superdrive gives itself a complete physical. If anything's wrong, it'll tell you... before you insert your valuable disk files into it. Cheaper drives don't have this feature and can't warn you of trouble. You won't find out about a problem until after your disk files have been damaged.

Superdrives come with Two Serial Ports. One to connect your computer and the other to "Daisy-chain" to another peripheral device such as a printer. But, you also get a Fully Functional IEEE Port! IEEE interfaces transfer data much faster than serial interfaces. By connecting your Commodore 64 to the IEEE port, you enter into a whole new realm of high speed data processing. This connection requires our IEEE interface... described elsewhere in this brochure. Some customers have asked why we don't run the IEEE feature directly through the serial port. The reason is because this would require interfacing software inside the computer memory... bringing in problems with software compatibility. With a Superdrive, you can have both IEEE speed AND software compatibility. The IEEE port also makes your Superdrive compatible with other Commodore computers such as the PET. This is due to the Superdrive's Sophisticated 16K ROM Operating System. It recognizes the complete Commodore disk instruction set. So, you can rest assured that your new Superdrive will be Totally Compatible with your Commodore 64, Vic 20, or PET computer.

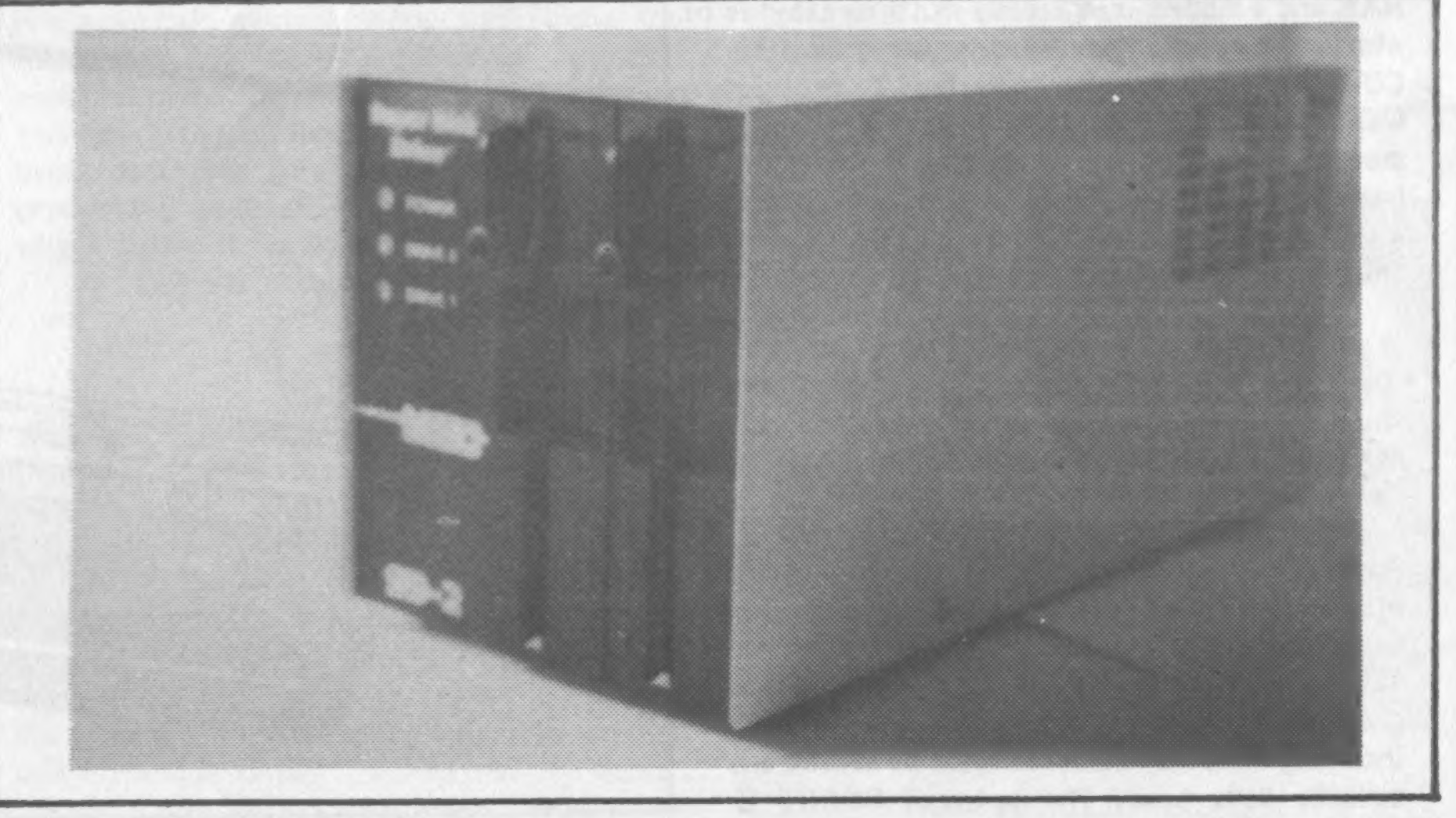
Superdrives are loaded with extras not found on cheaper drives. Each one has an Extra 8K of RAM inside the disk unit. Extra memory is always useful and 8K of it can cost as much as \$50.00. Each Superdrive features High Speed Diskette Formatting. All Floppy disks must be formatted before you can use them. Superdrives make the slow and tedious formatting procedure go much faster. Superdrives come in Both Single and Dual Drive Configurations... in one cabinet. This makes for more convenience with a dual system, since you can keep your programs on one drive and your data on another one. You spend less time inserting and removing diskettes. Superdrives handle 5 1/4" single sided double density diskettes with a capacity of about 175K. They come with extensive documentation, serial cable, power cable, and a comprehensive instruction manual. All you do is plug your Superdrive in and it's ready to go.

There's really no comparison between the Commodore 1541 disk drive and a Superdrive. The 1541 was built to sell at a low price. Compromises had to be made in design, materials and workmanship to accomplish the low selling price. Superdrives are built to give exceptional service. There were no compromises. Perfection such as that IS expensive. But then, you'd expect to pay more for industrial type reliability, versatility, safety, and all of the other extras built into a Superdrive.

Remember the old saying, "No one was ever sorry he bought the best." It goes doubly so for disk drives. Pay a little more for a trouble-free Superdrive and you'll never regret it. Experience the reliability and quality of a Superdrive and you'll know what we mean when we call it "DISK DRIVE EXCELLENCE."

ORDER YOUR'S TODAY
#230-300 Single 13 lb. \$349.95
#230-310 Dual 17 lb. \$649.95
#230-410 IEEE Interface 2 lb. \$109.95
#230-411 IEEE Cable 1 lb. \$49.95

ELEPHANT FLOPPY DISKS
For your Superdrive or other disk drive, these diskettes are guaranteed to meet or exceed every industry standard and are certified 100% error free. This guarantee covers a minimum of 12 million passes... extremely long life for magnetic media. These are 5 1/4" Single sided, Double density diskettes.
#101-300 10 diskettes 2 lb. \$40.00
#101-301 3 diskettes 1 lb. \$7.50



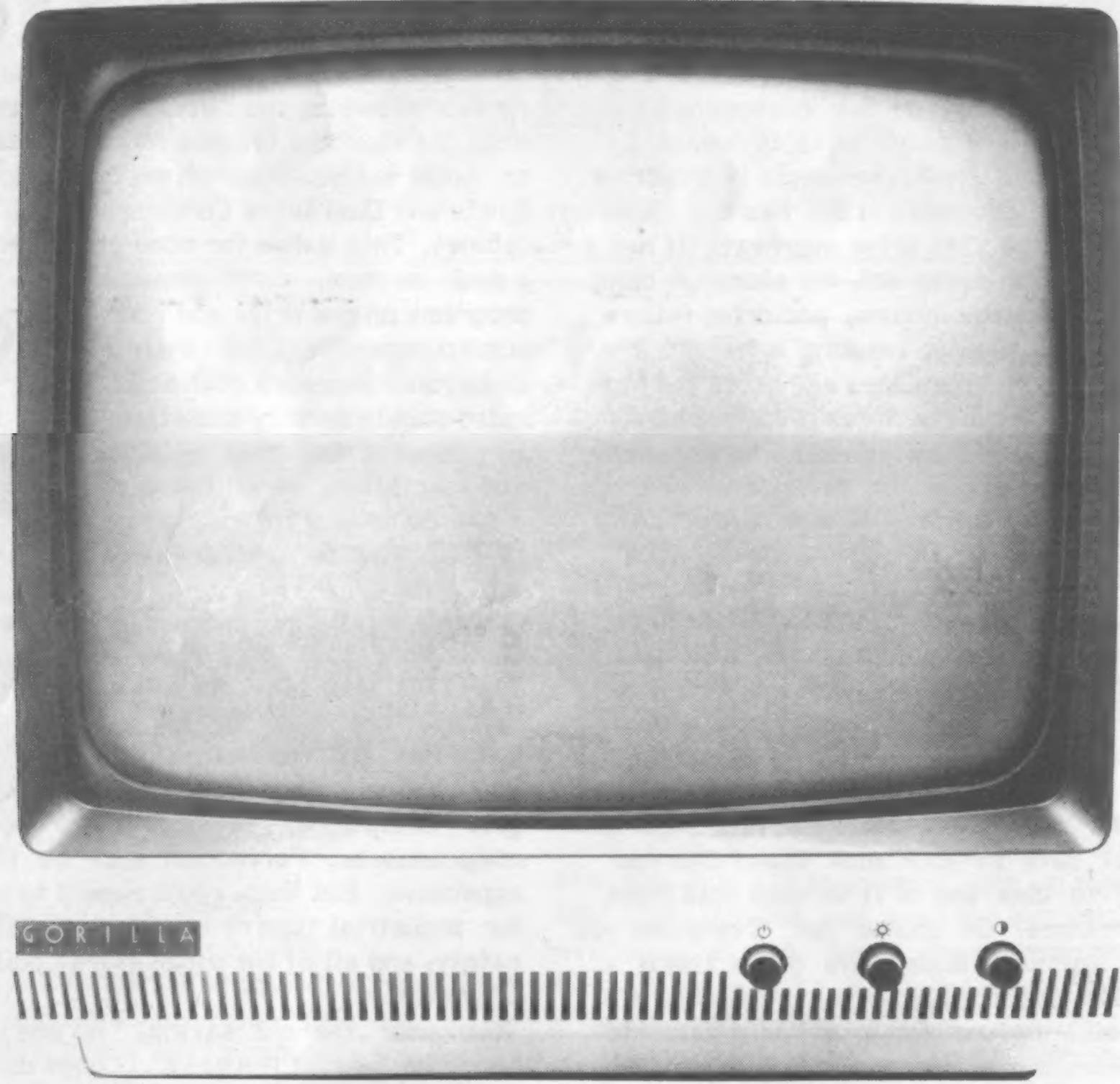
Monitors

You don't have to settle for a bad picture if you're currently connecting your computer to a television set. Our monitors will work with all Timex and Commodore computers and they're a cinch to hook up. They're plug compatible with the Commodore VIC/64 and the TIMEX 2068. And, if you want to use them with your TIMEX 1000/1500 we have easy conversion kits. Now that you've convinced yourself that inexpensive computers are REAL computers, why not get yourself a REAL computer monitor?

GORILLA GREEN AND AMBER MONITORS

Our Gorilla monitors are unlike other inexpensive monitors in that they're high quality, high resolution units. Don't let the low price fool you, these babies can handle up to 80 columns with crystal clarity. They come with a 12 inch non-glare screen and accept a composite video input. Resolution is 80 columns by 25 lines. The screen angle is adjustable too. 3 controls on the front turn the monitor on/off and adjust brightness and contrast. The input jack is a standard RCA phono plug, so you TIMEX owners can use the same cable that came with your computer. TS1000/1500 owners... be sure to order a monitor conversion kit. TS2068s are plug ready with their own cables. Commodore owners, you'll need our monitor cable. To top everything off, these Gorilla monitors are built to last. They come with a full one year limited warranty!

#101-450 Green 20 lbs. \$99.95
#101-455 Amber 20 lbs. \$124.95



SANYO DMC 6500 COLOR MONITOR → You wouldn't believe how hard it was to find the right color monitor for Commodore and TIMEX 2068 computers. It has to accept composite video input and the only composite color monitors we could find were limited to 40 columns of display (that's 40 characters across the screen). To get 80 columns we'd have needed an RGB monitor. Well, the DMC 6500 turns out to be perfect in either regard. It is a combination composite AND RGB color monitor! TIMEX 2068 owners will appreciate this, since you can get 32 or the full 64 character color displays right now... using your composite output. And when the Microdrive interface comes out, you can connect the same monitor to the RGB port and get the even clearer picture only possible with an RGB system. You Commodore owners will be able to use the clearer RGB features as soon as a suitable interface is developed. In the mean time, the composite mode will give a clear, accurate picture for 40 to 80 columns width. The composite connectors are standard RCA type... so TIMEX owners can use the cables that came with your machines. Commodore VIC/64 owners be sure to order our monitor cable. General features of the DMC 6500 include a 13 inch diagonal screen, intensity input for 16 color RGB, audio amplifier and volume control, black matrix-quick start CRT, and an optional green display in the RGB mode. Controls include: Power, volume, color, tint, brightness, contrast, H-Center, V-Hold, RGB/Composite, and Green Display. We do have a



more technical spec. sheet.. just call or write for a copy. Now for the best news. Even though RGB Monitors are expensive (Amdek RGB Monitors list around \$700 and above), Our COMBINATION composite/RGB DMC 6500 monitor lists for only \$495.00. We were able to fanagle a special purchase on them though, and are offering them at the low price of \$399.95... that's comparable to 40 column composite video monitors! We don't know how long we'll be able to offer the DMC 6500 at this price, so don't delay. Order your's today!

#216-450 DMC 6500 30 lb. \$399.95

MONITOR CONVERSION KITS

For TIMEX 1000/1500 computers. Kit changes visual output to direct composite video... making connection to our green screen monitors possible. Comes complete with components and instructions.

#220-450 Mon.Con.1000 1 lb. \$19.95
#220-451 Mon.Con.1500 1 lb. \$19.95

COMMODORE VIC/64 MONITOR CABLE

Use our monitor cable to connect your Commodore to any composite video monitor. It consists of a 5 pin DIN type plug on one end, and four RCA type phono plugs on the other end. The four phono plugs are color coded and make the cable compatible with color or monochrome monitors. Two of the plugs are for audio if you have a monitor equipped for sound (like our DMC 6500). These cables will work fine for connecting your VIC-20 or Commodore 64 to the monitors we sell as well as other industry standard monitors.

#230-450 Cable 1 lb. \$19.95

SHIELDED TV CABLE

The unshielded TV cable that came with your Commodore/TIMEX computer acts very much like an antenna. It can and does pick up radio frequency interference... which translates into a wavy display on your TV screen. Our 4 foot shielded coaxial cable doesn't pick up

all of that interference and you get a better picture. The plugs are the same RCA type you now have only the cable is shielded. Installation is only a matter of unplugging the old cable and plugging in the new one.

#115-405 Cable 1 lb. 14.95

THE VIDEO INVERTER

A fun addition to your Sinclair ZX81 or TIMEX 1000 computer. The Video Inverter changes your TV picture from black letters on a white background to white letters on a black background. You can switch to whichever display best suits the computing you're doing because the unit comes with a toggle switch. Background can be adjusted from totally black to gray using your TV controls. Installation requires opening the computer case. Four solders must be made and the toggle switch installed. Note: Our inverters have been custom made with extra long toggle switch leads. This allows you to install them anywhere on your computer. Other inverters must be installed at the back of your computer... where they interfere with your RAM and other peripheral add-ons. We offer both VHF and UHF versions of the inverter. If you order our UHF conversion kit, be sure to specify the UHF Video Inverter.

#117-400 VHF Inverter 1 lb. \$16.95
#117-401 UHF Inverter 1 lb. \$16.95

UHF CONVERSION KIT

For Sinclair ZX81 and TIMEX 1000/1500 computers. TV channels 2 and 3 are especially sensitive to radio frequency interference generated by your computer. UHF channels are much less sensitive... especially in the area of channel 33. Our UHF conversion kit changes your computer output to channel 33-UHF and clears up virtually all interference. The result is a crystal clear picture no matter how many peripherals you attach. The kit comes complete with a replacement UHF modulator and instructions. Some soldering is required.

#137-400 UHF Kit 1 lb. \$19.95

number. Your TIMEX answers the phone (even if you're not there) and receives the message in an instant. When you get home, you check the computer for messages, see one present, and have it printed out! Each modem includes over \$160 worth of free trial services from The Source, Compuserve, MCI Mail, and Dow-Jones News Retrieval. Order your's today!

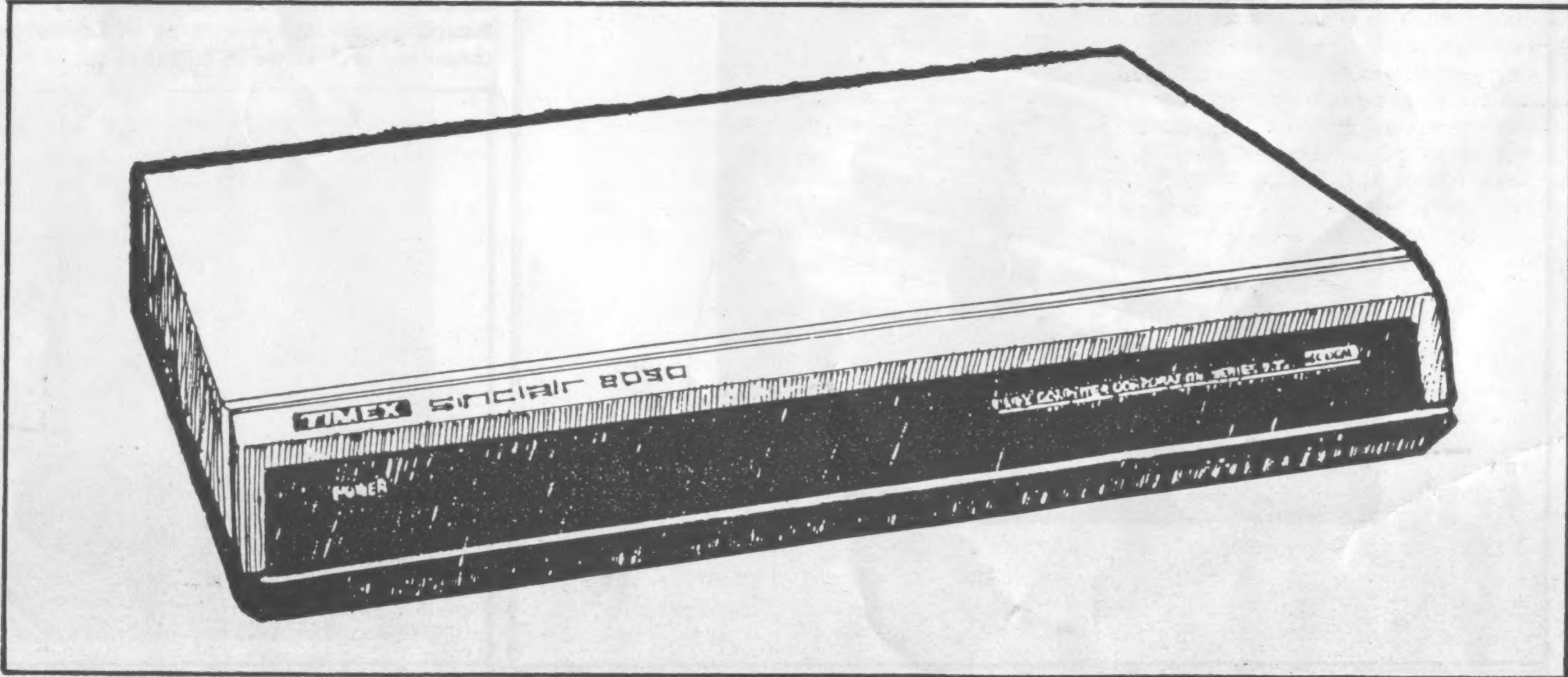
#100-375 TS2050 Modem 4 lb. \$119.95
#100-376 Smart II/2068 1 lb. \$39.95
#100-377 Smart II/1500-1000 1 lb. \$39.95

COMPUSERVE

If you like the idea of telecomputing, but don't know any computers to call up, the Compuserve package may be what you need. Just one phone number brings you a databank of information and services on just about any

subject you want. With compuserve, you can access the stock market, telephone directories, medical references, newspapers, magazines, air travel information, Associated Press wire service, weather info, games, electronic mail, and a myriad of other databanks. When you figure what it would cost to subscribe to a paper version of these sources, the subscription to Compuserve is a bargain. The actual directory of Compuserve services is too big to print here... it extends through 8 columns of type, finer than a phone book, and each column is 10 inches long! You get this directory when you subscribe. Each subscription also comes with 5 free hours of access time, your access number and a directory of toll-free access numbers.

#116-375 Compuserve 3 lb. \$39.95



Tele Computing

You can use your TIMEX or Commodore computer to access some of the world's largest data banks! All you need is one of our modems and a telephone. Hook them up with your computer, dial the phone number of another computer, and you're in business!

It's called "Telecomputing" and it's the wave of the future. With it, you can do banking, access late breaking news right off the wire, follow the stockmarket as if you were right there, make airline reservations, send electronic mail or telegrams in an instant, and share expensive data bank facilities. Some of our customers use their modems to access data banks at universities and colleges.

Another use for telecomputing is to share data storage facilities. A basic, unadorned computer like the TIMEX 1000, with only 2K of RAM and a modem, can access multi megabytes of storage through telecomputing services like COMPUSERVE. It used to be that Telecomputing was expensive. But, take a look at these modems and Compuserve and you'll see all that has changed. Get yourself a modem and discover a whole new world of computing... with your telephone!

TIMEX 2050 MODEM

Designed especially for all TIMEX computers, the 2050 offers some exceptional features at a remarkable price. It's one of the new "modular" hook-up modems. This means you don't need to put acoustic "cups" on your telephone. Just plug the modem into your phone jack. The standard SMART I software that comes on cassette will allow you to use the 2050 with TIMEX 1000, 1500, and 2068 computers and provides the capability to auto answer incoming computer calls, as well as access any outside data base. The optional SMART II

software comes on cartridge and provides auto dial of up to 14 different phone numbers, each with it's own preset access codes and log-on sequences! You can save and load other files containing phone numbers and other communication parameters... making the auto dial feature capable of many more than the basic 14 numbers. With the speedy microdrive on your TS2068, this will give amazingly high speed auto dialing capabilities. Incoming data is handled just as nicely. You can store it right in your RAM and print it out later. For example, a friend might send you a letter over the phone. He types it all up, then dials your

Accessories



TIMEX 2090 JOYSTICKS

For the TIMEX 2068 and Commodore VIC/64 computers, these joysticks have the standard 9 pin joystick plugs. They're of exceptional quality for the price charged. Use them for more realistic action when playing computer games!

#100-410 TS2090 Joystick 1 lb. \$14.95

TS1000 CENTRONICS INTERFACE

For ZX81 and TIMEX 1000 computers, this Centronics Parallel Interface allows you to connect your computer to a full size printer. It functions from the standard print commands: LPRINT, LLIST, COPY, and Bit Graphics Mode. It's compatible with our Mini Disk Interface, too. This interface works with any printer that accepts Centronics Parallel Input.

#101-400 TS1000 CPI 1 lb. \$9.95

TS2068 CENTRONICS PARALLEL INTERFACE

Connect your TS2068 to a full size printer. This interface supports the standard print commands: LPRINT, LLIST, COPY and Bit Graphics Mode. It works with printers that accept standard Centronics input.

#101-413 TS2068 CPI 2 lb. \$89.95

FOUR PORT EXPANSION SYSTEM

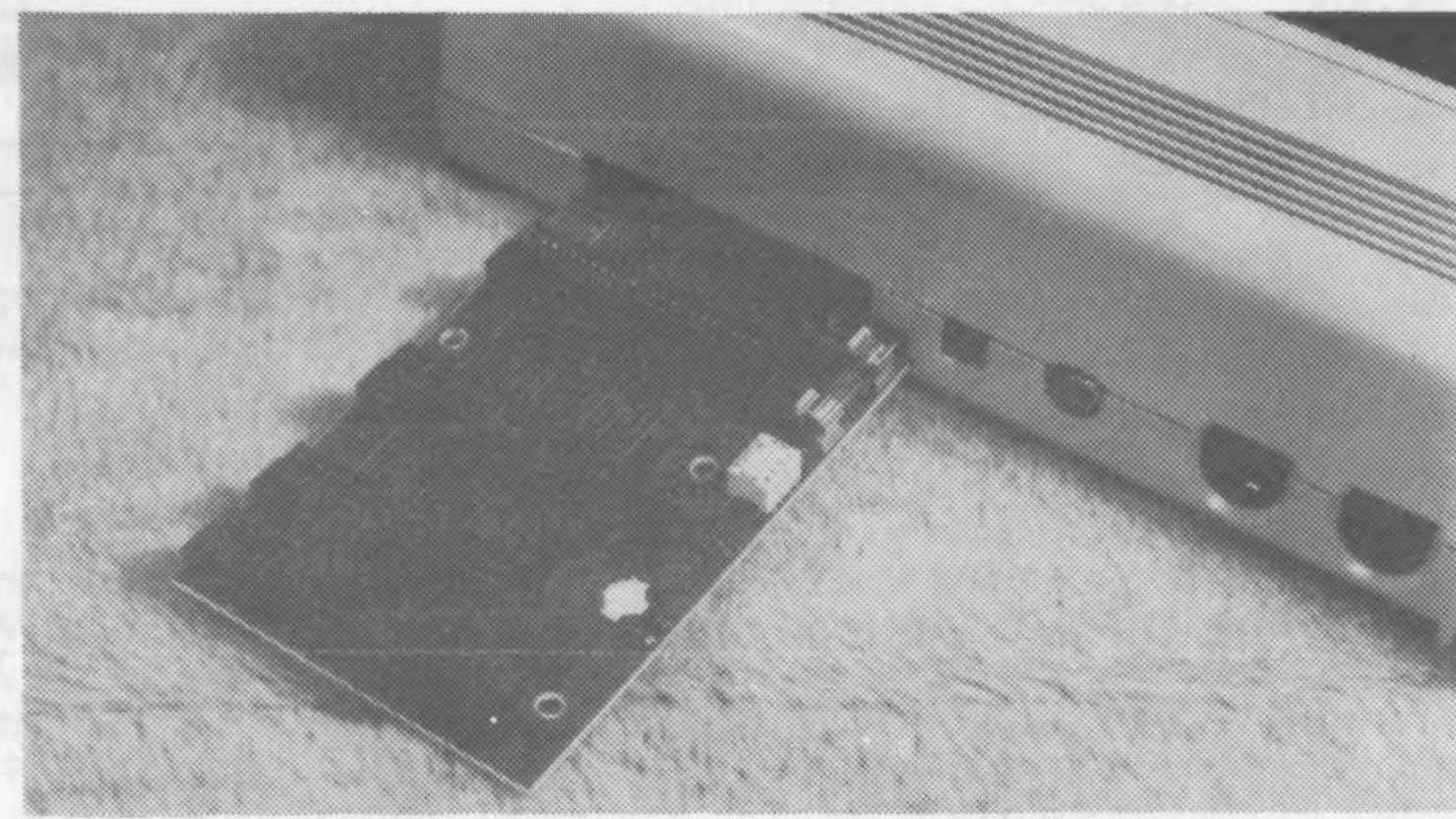
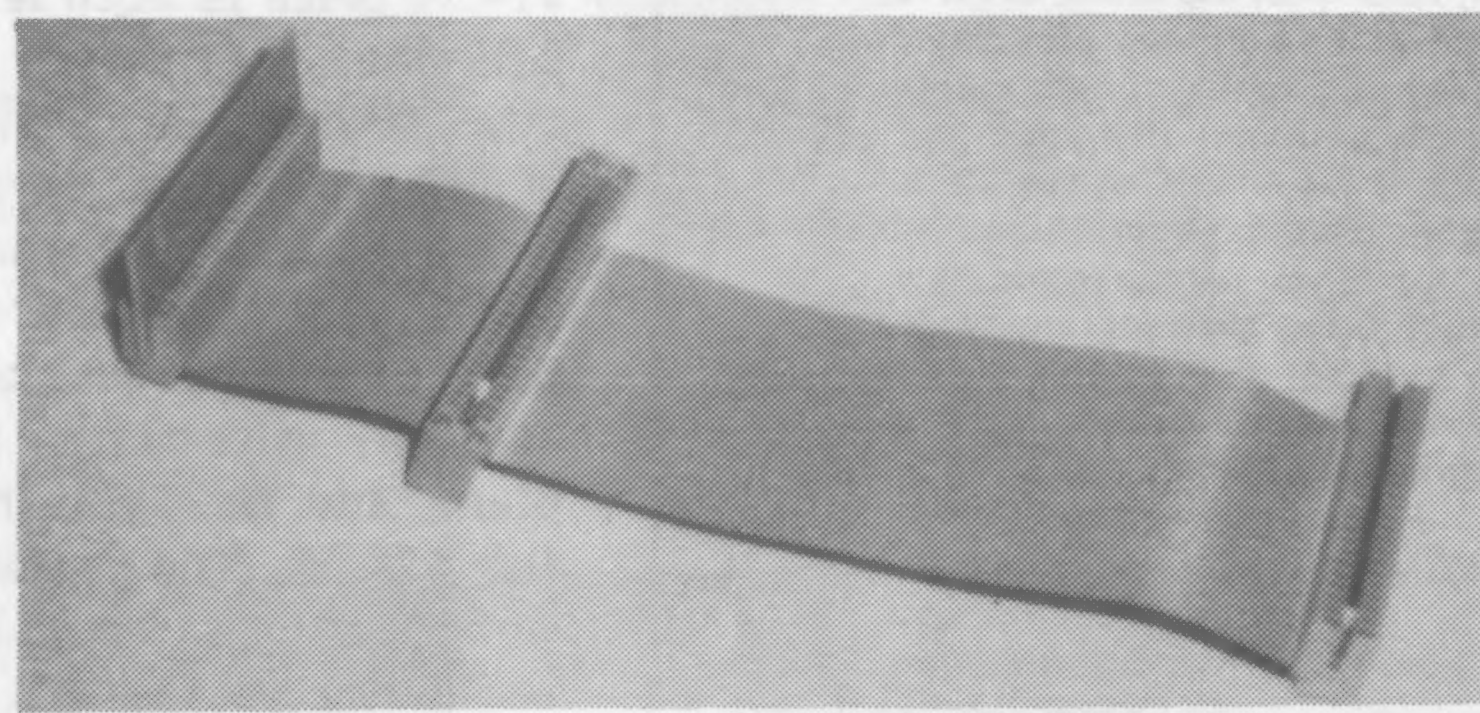
For Commodore 64 computers, this system allows you to have up to four software cartridges plugged in simultaneously. It accepts any software cartridge that's normally compatible with your computer, even those of varying widths. Features include a fuse to prevent excessive current drain and a reset switch... allowing you to restart your computer without losing memory in RAM.

#230-400 4 Port Ex.Sys. 1 lb. \$69.95

CASSETTE RECORDER FILTERS.

Many standard cassette recorders don't give optimum performance when used with computers. These filters purify their signal, giving more reliable LOADs and SAVEs. Order FL1000 for TS1000/1500s and FL2000 for TS2068s.

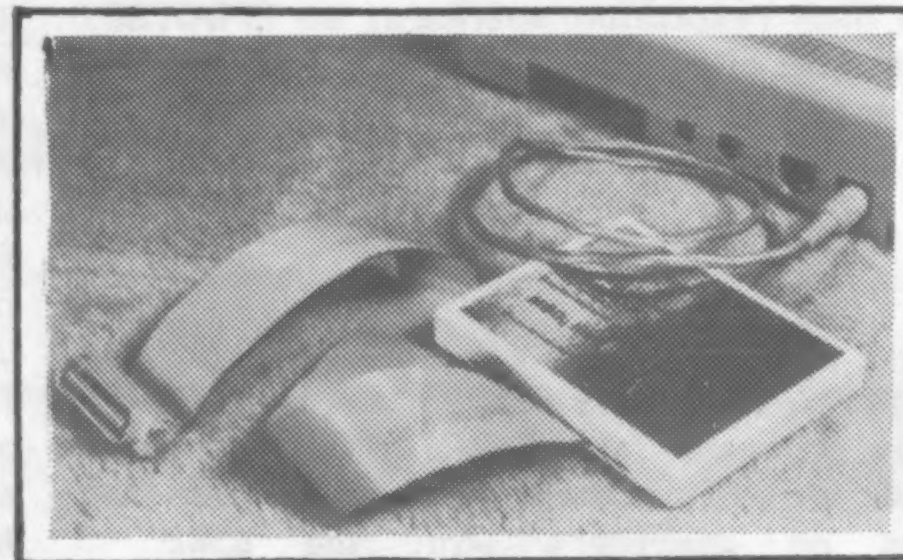
#363-400 FL1000 1 lb. \$9.95
#363-400 FL2000 1 lb. \$9.95



IEEE INTERFACE

Allows you to connect your Commodore 64 to other Commodore devices such as the 4040, 8050, 2031, 2032, 4022, and 8023. Also allows connection to the IEEE port on our Superdrives giving much faster utility. Plugs onto the expansion port and has a through plug for other expansion modules. Requires IEEE cable.

#230-410 IEEE INTERFACE 2 lb. \$109.95
#230-411 IEEE CABLE 1 lb. \$49.95



CENTRONICS PARALLEL INTERFACE

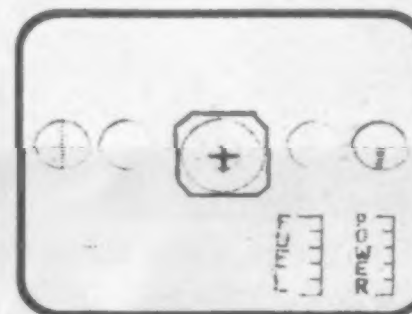
Allows you to connect your Commodore 64/VIC to any printer with standard Centronics Parallel input. Plugs into the serial port and gives total Commodore compatibility. Features include switches for setting insertion or deletion of line feed, conversion to standard ASCII, addressing the printer to device 4,5,6, or 7, and the ability to print normally unprintable characters in recognizable form.

#101-361 C-64 CPI 2 lb. \$79.95

EXPANSION RIBBON CABLES

For ZX81, TIMEX 1000, and TIMEX 1500 computers. These ribbon cables are approximately 8 inches long and allow connection to more than one peripheral that has no through plug (3 port version), connection to the QSAVE EPROM, and connection to stabilize your RAM module. Some customers have come up with their own projects where the ribbon cable helped connect things within the confines of a separate case. How many uses can YOU think of for them?

#105-400 2 Port Ribbon Cable 1 lb. \$19.95
#105-401 3 Port Ribbon Cble. 1 lb. \$24.95



FLIGHT SIMULATOR 16K

Learn the basics of instrument flight with an artificial horizon and full instrumentation. It's not as easy as you might think! After using a map and radio navigation beacons you'll hopefully be lined up with the runway, ready to land, and still have some fuel! Landing is an altogether different proposition. A visual runway is displayed along with your instruments and you descend at the right rate not to crash and not to overshoot. Graphics are excellent and the techniques are challenging. It'll take you a while to master it... then you can add wind effects! Available on cassette and cartridge.

#100-835 Flt.Sim.Cassette 1 lb. \$19.95
#100-836 Flt.Sim.Cartridge 1 lb. \$19.95

Basic BASIC 2K

A series of 2K programs which take the beginner through the construction of a simple game program. They use a program-by-example technique to teach programming. You get the programs on cassette, a blank cassette for saving your work, and a workbook that includes diagrams, tips about easy ways to edit programs, and LOAD/SAVE techniques.

#136-820 Basic BASIC 1 lb. \$17.95

SUPER MATH 16K

Drill yourself or your child in the four basic math functions with 5 levels of difficulty. Each problem is graphically depicted and a final grade is given after each 10 problems. An excellent teaching facility that provides ongoing feedback as students progress through each challenging level of difficulty. Available on cassette or cartridge for TS1510 Command Cartridge Player.

#100-870 S.Math Cassette 1 lb. \$14.95
#100-871 S.Math Cartridge 1 lb. \$19.95

PROGRAMMING AIDS

MCDER 3 PACK 16K

Write and debug your program in BASIC and then MCDER compiles it into high speed machine code. It supports the basic math functions but not trig, and logic. Those sorts of programs would have to be compiled partially in BASIC and partially in machine code. MCDER makes for much faster running programs however you use it. This package has two bonus programs in addition to MCDER, Assembler/Debugger and Stopper to BREAK machine code programs. An Exceptional value.

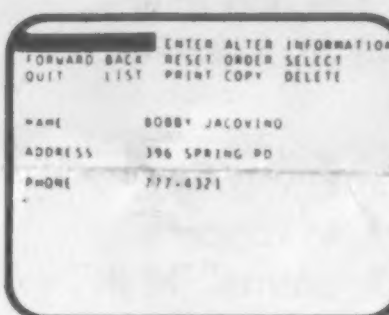
#105-900 MCDER 1 lb. \$23.95

TS1000/1500 Software

HI-REZ WORD PROCESSING 16-64K

Our new HI-REZ word processor actually displays it's own set of lower case letters and gives a full 64 character display on your screen. Output to your TS2040 printer can give the usual 32 character width, or 64 characters printed out sideways on the paper! You can print either the whole text or a screen at a time. Text entry is high speed and flicker free with a thin underline for a cursor. It has full repeating keys, insert, delete, or move text. All text is automatically comes up in lower case with capitals in the graphics mode. Of course it has word wrap and complete editing features. And, it works for 16-64K of memory. Designed for the TS2040 printer. This is the program you've been asking for: Lower case letters AND 64 character display right on your screen!

#275-600 Hi-Rez Word Pr. 1 lb. \$24.95



THE ORGANIZER 16K

A general purpose data base, noted for it's ease in setting up. The organizer presents an index card type of record which you arrange with titles and data fields as you wish. It can be ordered alphabetically or numerically, searched, and edited. The number of records it holds depends on the size of each record, but it's roughly 100. You can set the printer output to arrange text anyway you want.

#100-600 Organizer 1 lb. 14.95



FROGGER 16K

Frog must hop across river and highway avoiding snakes, crocodiles, and traffic. Object is to rescue his sweetheart and bring her to safety. Good graphics, this game is by Sega Enterprises, creators of the arcade version of Frogger.

#100-710 Frogger 1 lb. \$15.95

KRAZY KONG 3 pak 16K

Very much like the arcade Donkey Kong, only for the TS1000/1500. The object is to reach the damsel in distress at the top of the skyscraper avoiding the obstacles that Kong tosses in your way. This cassette includes Ghost Hunt game and Stopper, machine code program breaker. A lot of fun and a good value!

105-700 Krazy Kong 1 lb. \$17.95

MOTHERSHIP 16K

Another 3 dimensional game, you sit in the cockpit of your Starlight Fighter flying mere inches from the sides of the Zorway space corridor at screaming speeds. There's plenty of starship blasting and fancy flying with 3-D all the way. A very exciting game as you pursue the Mothership.

#125-700 Mothership 1 lb. \$15.95

QUEST FOR THE HOLY GRAIL

A daredevil archeology professor, you search for the Holy Grail on a volcanic island. Read the clues, outwit the Nazi, evade the

TAX COMMAND 16K

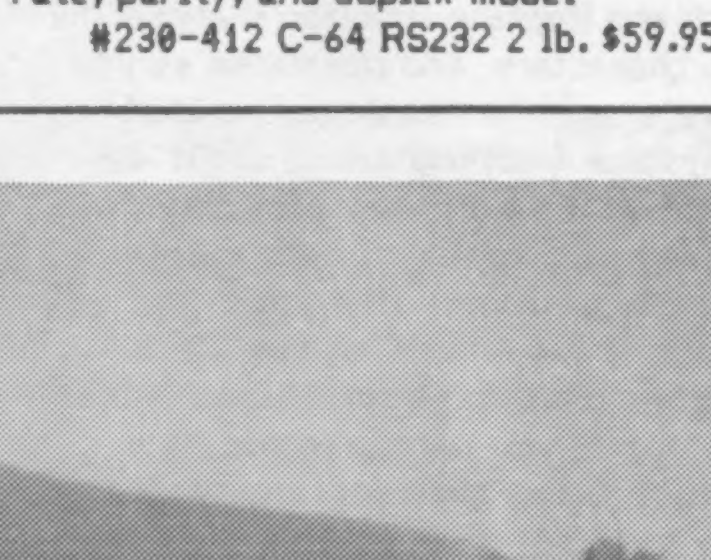
We may be a little late with this one, but if you haven't done your taxes YET, maybe you better get some help from your computer! It includes Form 1040, Schedule A (deductions), Capital gains, Income averaging, and 1983 tax tables. Let your computer figure your taxes, order today!

#197-600 TAX 1000/1500 1 lb. \$24.95

RS232 INTERFACE

Allows you to connect your Commodore 64 to other Commodore devices such as the 4040, 8050, 2031, 2032, 4022, and 8023. Also allows connection to the IEEE port on our Superdrives giving much faster utility. Plugs onto the expansion port and has a through plug for other expansion modules. Requires IEEE cable.

#230-410 IEEE INTERFACE 2 lb. \$109.95
#230-411 IEEE CABLE 1 lb. \$49.95



STATES AND CAPITALS 16K

A self teaching tool with a map of the United States. Enables memorization of location and name or states and capitals. Available on cartridge for 1510 Command Cartridge Player.

#100-838 St.Cap.Cartridge 1 lb. \$19.95



SPECTREX GRAPHICS 32-64K
An exceptional value, the SPECTREX program provides high resolution graphics and three dimensional design facilities. For example, you can design a figure, shade it, and rotate it... all with your computer. It contains it's own high resolution software, so SPECTREX needs alot of memory. You'll need a minimum of 32K with this one.

#114-901 Spectrex 1 lb. \$24.95

TS1000/6502 CROSS ASSEMBLER 16-64K
This software takes TIMEX 280 mnemonics and cross assembles them into machine code that runs on computers with the 6502 microprocessor. This means you can use your TIMEX 1000/1500 to write programs for the Commodore VIC/64, Apple IIE, and other 6502 based computers! Commands include: Insert, Delete, Block Delete, Modify, Save, Load, Compile, List (to screen or printer), and Symbol Print. It also permits use of labels for branches or jumps. This is quite a sophisticated utility. It was produced for us by a company that uses the Timex 1000 to program computerized wheel balancing systems!

#220-900 TS1000/6502 Comp. 1 lb. \$24.95

PROGRAMMER'S TOOLKIT
Features line renumbering including GOTO's and GOSUB's allowing you to open up space for more program steps or just neaten up your programs. The Free space function tells how many bytes of memory you have remaining in RAM. A Search and Replace function changes the occurrence of characters and commands as you require. There's even a tape routine that provides a system wait condition until a signal is received from the cassette player. For graphics, a hyper-graphics mode instantly fills the screen with any character you choose. Reversing the screen is possible too. This program is made to be co-resident with our Graphics Kit if you want... providing a superb combination of graphics and toolkit functions. Everything is in machine code to take up little memory and run fast.

125-900 Programmers Toolkit 1 lb. \$14.95
GRAPHICS KIT 16K
Gives 23 machine code graphics routines including DRAW/UNDRAW, BORDER/UNBORDER, FOREGROUND ON/OFF, REVERSE, and many more. Print position can be altered by commands: UP, DOWN, LEFT, RIGHT. You can scroll up and down and you can even turn your screen on and off. You also get SEARCH and REPLACE and BACKGROUND ON/OFF. An excellent utility!

#125-905 Graphics Kit 1 lb. \$14.95

Panasonic VCR's \$14.95

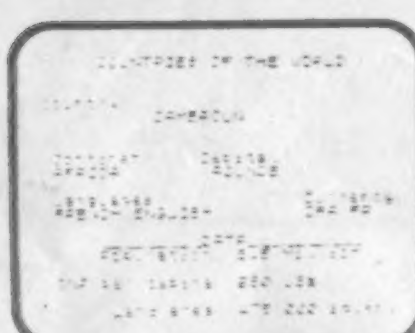
Yes, you can have your very own Panasonic Video Cassette Recorder for only \$14.00! These VCRs normally sell for up to \$700.00 in stores. Not only that, you also get two "first run" movies (with exchange privileges) from our extensive video movie library! If you haven't guessed it yet, this \$14.00 price is much less than the package costs. How can we sell them that cheap? Well, there's really no trick to it. It's part of an exciting program designed to introduce more people to the booming Video Cassette Recorder business. We're a nationwide distributor of VCRs looking to establish small VCR businesses throughout the country. You can be a part of this booming industry and be your own boss, too! We have an information package that describes our business plans and how you and your friends can get Panasonic VCRs for \$14.00. The package is expensive to print and mail, so we do charge for it. For your copy, please send \$2.00. If you'd prefer to call, we do accept VISA and Mastercard. Thank you.

ROICO VIDEO
P.O. Box 781-B, Alexandria, MN 56308 * 612/763-7051

TS2068 Software

PERSONAL ACCOUNTANT '2068
A comprehensive accounting program with financial features usually only found in expensive business software. This program is easy to use and well documented. Available on cassette only.

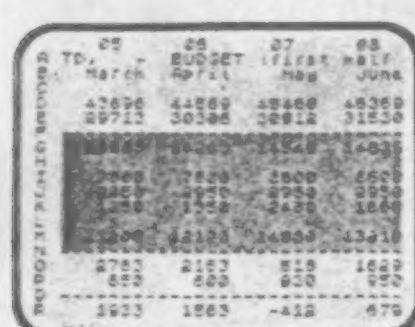
#125-600 Pers.Acc.2068 1 lb. \$21.95



VU-FILE 2068

Index card type filing system, similar to ORGANIZER for the TS1000. Features easy to set up records, search, edit, delete functions. Printout formatting and ordering of output either numerically or alphabetically. Available on cassette and on cartridge (cartridges in April).

#100-655 Vu-File Cart. 1 lb. \$34.95
#100-654 Vu-File Cass. 1 lb. \$24.95



VU-CALC 2068

An electronic spreadsheet or columnar pad. Enter figures and formulas onto columns and rows, let the computer do the figuring. Us for business, science, or other types of number analysis. Available on cartridge (in April) and cassette.

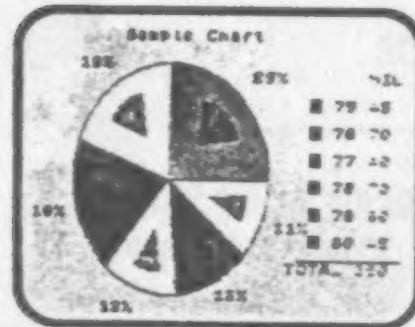
#100-650 Vu-Calc 2068 Cart. 1 lb. \$34.95
#100-651 Vu-Calc 2068 Cass. 1 lb. \$24.95



VU-3D 2068

A sophisticated design and modeling program which allows you to create any object on the screen which you can then modify, expand, reduce, shade, color, or zoom in or out. You can even rotate the object to view it from other 3-D perspectives. This is an exceptional program for serious design work or for just fun use of your 2068 computer! Available on cassette. Order today!

#100-652 Vu-3D 2068 Cass. 1 lb. \$24.95



QUADRACHART 2068

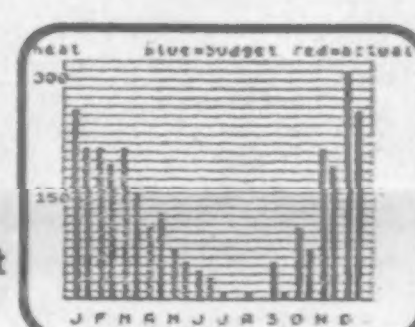
This is a sophisticated charting and graphing program. You develop numerical data charts and then use them to create bar graphs, pie charts, or line graphs in full color high resolution. A single data chart can be illustrated as four different graphic charts. Available on cassette.

#100-653 Quad.Chrt.2068 Cass. 1 lb. \$19.95

MAILING LIST 2068

Written for us by a professional mailing list manager, this program is a truly professional system. It can hold up to 250 names, addresses, and telephone numbers. All commands are menu driven for easy use. Records can be added, deleted, updated, sorted, searched, and saved. You can sort by name, city, state, zip code, area code, or telephone exchange. Output to a printer can be formatted any number of ways.

#364-600 Mail List 2068 1 lb. \$19.95



BUDGETER 2068

Track actual versus budgeted expenses and let your computer analyze the differences. Up to 50 categories of expenses can be recorded for a full year's budget. Bar graphing feature illustrates data graphically. This program is a valuable tool for business as well as home budgeting. Available on cartridge or cassette.

#100-660 Budgeter 2068 Cart. 1 lb. \$34.95
#100-661 Budgeter 2068 Cass. 1 lb. \$24.95



CHECKBOOK MANAGER 2068

Balances your checkbook and gathers data for tax purposes. Deposits are entered by date, amount, and source. Checks issued by date, amount, payee, and tax classification. Available on cassette.

#100-621 Checkbook 2068 1 lb. \$19.95



AUTO ANALYZER 2068

A sophisticated computer system to keep your car in top shape. This program tracks all automotive maintenance and lets you know when your next service is due. Diagnostic aids help you pinpoint needed repairs.

#100-653 Auto An. 2068 1 lb. \$24.95

COSMIC GORILLA 2068

Gorilla raiders invade earth and you have to fight them off. The multiple screens in this game create dramatic effects. Available on cassette.

#125-725 Cos.Gor.2068 1 lb. \$19.95

CRAZYBUGS 2068

Move through mazes grabbing eggs and unlocking locks, but don't get bitten by the bugs! When you win, you enter a secret door to the next level of play. Available on cassette.

#100-713 Crazybugs 2068 1 lb. \$19.95

GULPMAN 2068

An exciting maze game. You ush through the maze gobbling up apples and avoiding wormoid chasers. Available on cassette.

#125-730 Gulpman 2068 1 lb. \$19.95

VOICE CHESS 2068

Here's a game that really uses your computer capabilities to the fullest. It actually TALKS to you! It features 7 levels of play and excellent graphics. Available on cassette.

#125-735 Voice Chess 2068 1 lb. \$24.95

PENETRATOR 2068

A high speed arcade flying game. You fly low avoiding the roving terrain and through tunnels to bomb the enemy base without getting shot down. Four levels of play. Available on cartridge (April) and cassette.

#100-720 Pntrtr.2068 Cart. 1 lb. \$39.95
#100-721 Pntrtr.2068 Cass. 1 lb. \$19.95

PINBALL 2068

Pinball action shoots the ball, bumper action, nudging, and flip action flippers. Free ball awarded at 10,000 points. High scores light up the scoreboard. Available on cartridge (April).

#100-715 Pinball 2068 1 lb. \$34.95

DRAGMASTER 2068

Speed your dragster over the quarter mile strip, shifting gears and monitoring the speedometer and tachometer. You race against a clock in this excellent auto simulation game. Available on cassette.

#100-711 Dragmaster 2068 1 lb. \$15.95

CYBERZONE 2068

This is an exciting new voice activated game. Using the sound capacities of your 2068, Cyberzone makes for a unique variation on the usual way games are played. Available on cassette.

#125-740 Cyberzone 2068 1 lb. \$19.95

FLIGHT SIMULATOR 2068

Learn instrument flight with this new hi-res version of Flight Simulator. See TS1000/1500 software for complete description. This version offers more features, in color, and in high resolution. Available on cartridge and cassette.

#100-836 Flt.Sim.2068 Cart. 1 lb. \$39.95
#100-838 Flt.Sim.2068 Cass. 1 lb. \$24.95

PROGRAMMING AIDS

MONITOR/DISASSEMBLER 2068

This program allows you to more easily enter, edit and debug machine code programs. A MUST for serious programmers. Available on cassette (April).

#125-901 Mon/Dis 2068 1 lb. \$19.95

ASSEMBLER 2068

This program assembles assembly language programs quickly and efficiently. Another MUST for serious programmers. Available on cassette.

#125-902 Assembler 2068 1 lb. \$19.95

TS1000 to TS2068 PROGRAM CONVERTOR

This new program allows you to convert your library of ZX81, TS1000, and TS1500 programs into TS2068 programs! Now, you don't have to re-key all of those programs to make them compatible with TS2068s. It works for programs written in BASIC, not machine code. This program is sensitive to tape recorder head alignment, so we recommend purchase of an FL2000 recorder filter.

#363-900 Prog.Conv. 1 lb. \$19.95

Commodore-64

ORACLE DATA BASE

A super versatile data base, Oracle can have up to 8 screens of text in a record, up to 99 data fields. Elaborate search, select, and sort features give you up to 10 different levels of sub-sort. Analysis features help you to generate reports from the data base too. Calculations can be done, printer forms set up... everything is so flexible and easy to use. Use Oracle for anything from simple mailing lists to elaborate personnel or customer records. Reports can be anything from sales figures to invoices and statements. Available on disk

#235-600 Oracle 64 3 lb. \$149.95

SCRIPT 64 WORD PROCESSING

This word processor gives you 80 columns of text without hardware modifications. It features big word processing capabilities like word wrap, insert, delete, move, auto hyphenation, search, and right justification. A printer selection feature allows you to take advantage of your printer's special capabilities, such as bold print, underline, etc. You even get a data base to interact mailing lists with your text! On disk

#235-605 Script 64 3 lb. \$99.95

CALC RESULT ADVANCED

A three dimensional electronic spreadsheet, Calc Result allows you to interact several spreadsheets and produce summaries, projections, or analyses. Column widths are adjustable, printout formats are adjustable, and there're even logic capabilities. This is a low cost spreadsheet that rivals \$500-700 programs written for more expensive computers. On disk

#235-610 Calc.Res.64 3 lb. \$149.95

COLOR 80-80 Columns

This software gives you an 80 column display on your Commodore 64. It loads under BASIC, Kernal, and I/O, so it won't use any of your BASIC memory! No hardware modifications are necessary. On disk

#235-900 Color-80 3 lb. \$39.95

64-FORTH

A language that's faster and more compact than BASIC, FORTH is surprisingly easy to program with. Load this operating system onto your Commodore 64 and it's almost like getting a new computer! On disk

#235-905 64 Forth 3 lb. \$49.95

CODEPRO-64, Computer Tutor

An exceptional way to learn your Commodore 64! Codepro-64 teaches the all of the BASIC language elements, Sprite, and Music programming. You or other students constantly interact with the computer as you learn. Everything is menu driven to make it easy to use. On disk

#220-905 Codepro-64 3 lb. \$59.95

THE LAST ONE

Here's possibly the last program you'll ever buy. The Last One is a program generator. It writes customized programs from the parameters you select. If you have a special program need and haven't been able to find just the right software, this is the one to get. It'll make programs do what YOU want them to do! IBM-PC versions of this program cost \$500. But you can get it for your Commodore 64 for a fraction of that price. Order yours today. On disk

#235-910 The Last One 3 lb. \$99.95

EB4



New Product Reports

SPECIAL SUPPLEMENT

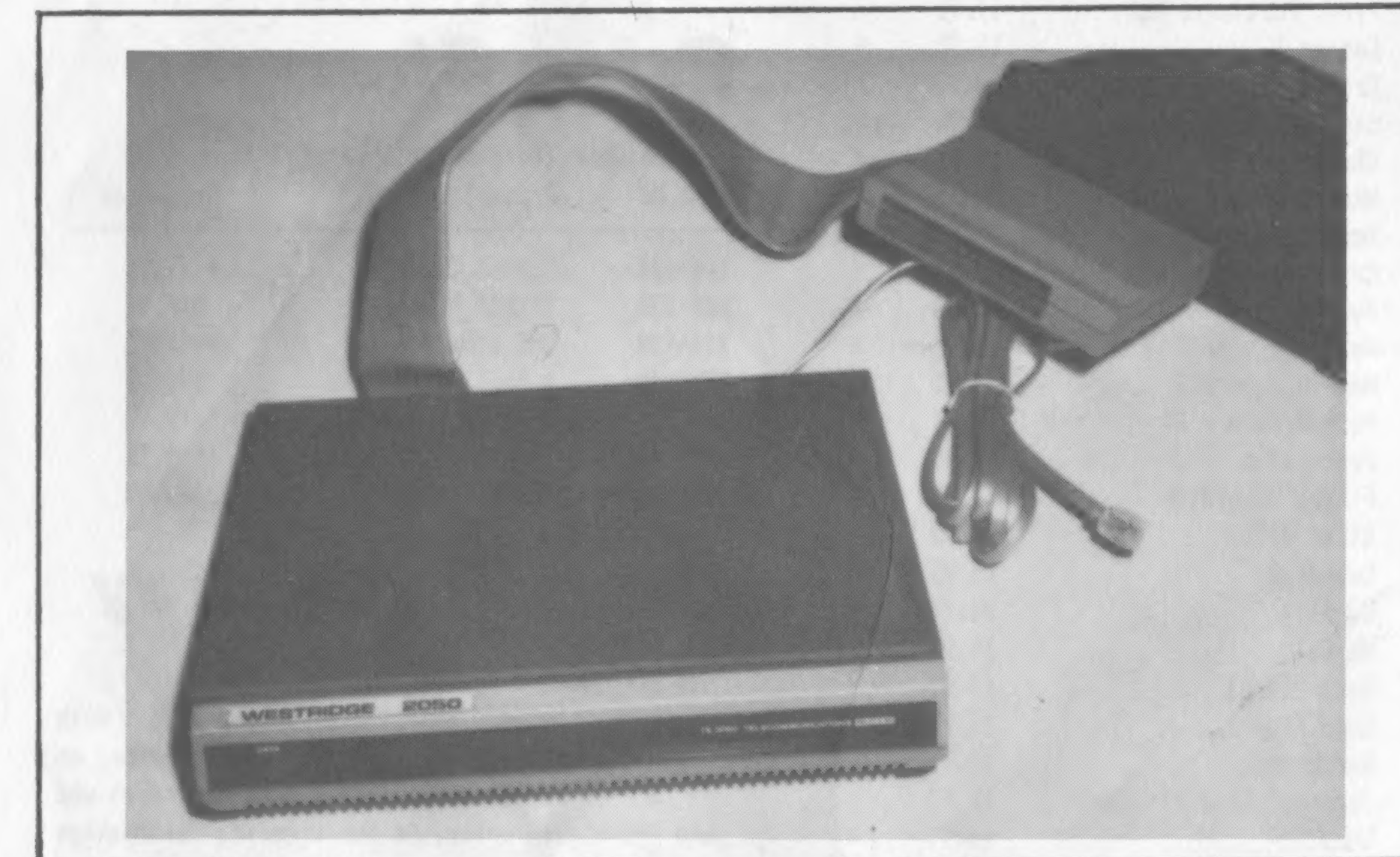
... For Timex and Commodore Computers

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NEW ADDRESS: 3404 Pawnee Drive, Alexandria, MN 56308 • 612/762-8847

2050 Modems... We've Got 'Em!

For TS1000, TS1500, and TS2068 Computers)



Not only have we got them, they work like a charm! No elaborate machine code POKE commands or other confusing operating procedures. Operation is as simple as this: Plug the modem onto the back of your TS1000, TS1500, or TS2068. Plug your printer or memory onto the back of your modem. Plug the modem into your phone jack. Power up the computer and load the terminal software. Now, to connect with another computer you just dial it's number from your computer keyboard! If you leave your computer and modem turned on, it will automatically answer the phone too! There are alot of technical terms associated with modems. So as not to confuse things, the 2050 is preset to communicate with all of the special services like Compuserve, The Source, and Dow-Jones... to name a few. But right from the menu, you can reset these parameters using plain english terminology... no special programming knowledge is needed. You can

select half or full duplex. Odd, even, or no parity. You can set word size for 5, 6, 7, or 8 bits. And you can select 1 or 2 stop bits. The 2050 operates at 300 baud, so it gets the lowest hourly rates on information services. If you want a copy of what you're receiving, you can print it on your printer. A very informative and understandable operating manual is included and everything comes ready to go and covered by a one year warranty. If you've been waiting for the modem that doesn't require an electronics genius to operate, this is it! Order your's today and discover a whole new world of computing! (While you're at it, check out the Compuserve starter kit on page 6. It gives you 5 free hours of connect time!)

#100-375 2050 Modem 4 lb. \$119.95
#116-375 Compuserve 3 lb. \$39.95

Good News For Worried TIMEX Computerists

By Eben Brown

A couple of months ago, we sent out a special supplement to a small portion of our mailing list. The headline read: TIMEX Snatches Defeat from Jaws of Victory. What followed was a somewhat depressing account of how TIMEX had bowed out of the computer business in February and of how no one was yet sure where their customers could get supplies and service. It's now 2 months since the fateful date and I think things might be looking pretty good.

For one thing, we're fortunate that TIMEX wasn't the original manufacturer of many of their peripherals. We've found the maker of the joysticks and can supply them at the same price. We've found the manufacturer of the 2050 modem and are buying them directly from them rather than TIMEX. The full size printer is a Hannemann-Tally MT-80. We've taken on a very good Electronics Parallel Interface for the 2068, and even have a new word processor for it. The disk drive interface is very near being ready for release, so we can offer you pretty much the same package

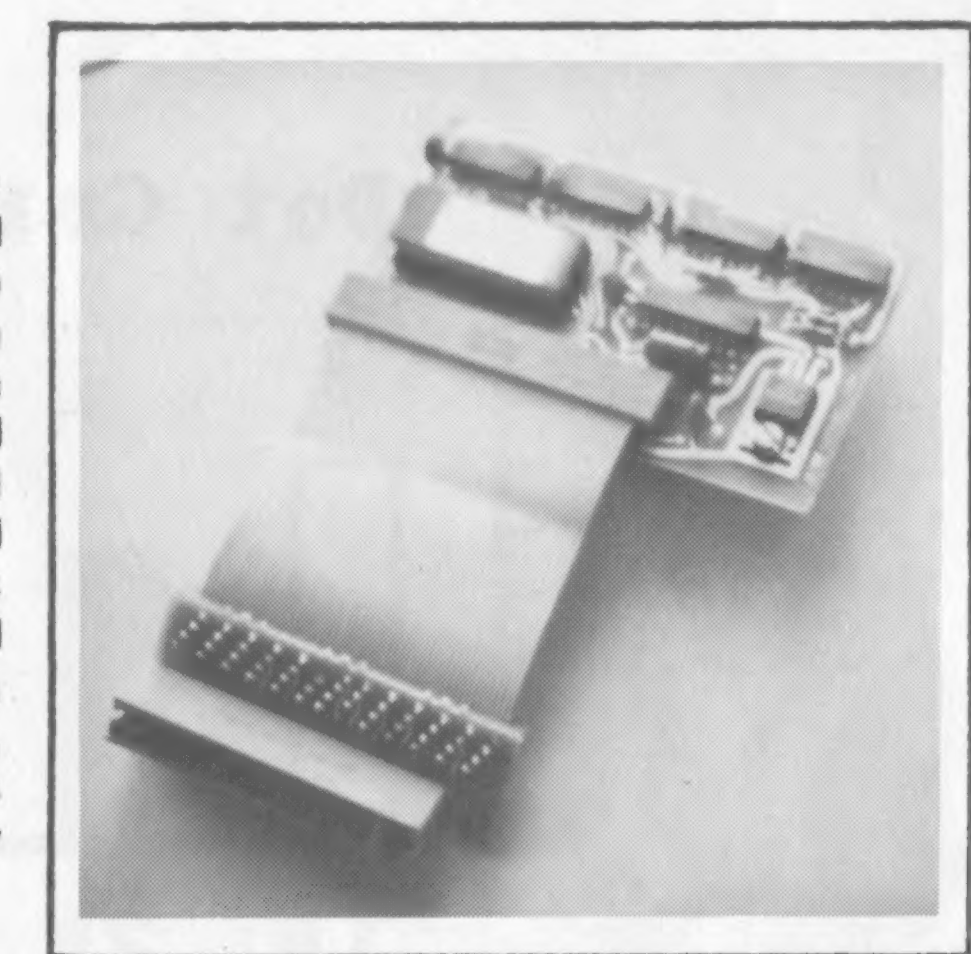
TIMEX was promising. Yes, but what about the future? Well, TIMEX computers are not really the products of TIMEX Corporation. They're the technology and genius of Sinclair Research in England. Sinclair won't be starting up manufacturing of the TIMEX versions. But it's reassuring to know that they are healthy and don't look at all like they're quitting. Now that TIMEX has left the market, Sinclair will be re-entering the American market... probably around Christmas. Making Sinclair-compatible software and peripherals work with TIMEX ones requires minimal adjustments or changes. So even without TIMEX, you still have a computer company!

We're currently working on a new line of products developed from English companies that supply software and peripherals for the Spectrum. You're going to be amazed at what's available in just a few months. Yes, things looked pretty black a couple of months ago. But hang with us! We'll do our best to bring you the products you want for your TIMEX-Sinclair computers!

Rare Timex Eprom Players

These EPROM demonstrators were intended for use in stores as selling tools. They contain an EPROM with a demonstration program on it. Plug them onto the edge card connector of your TS1000 and then power up your computer. Instantly the program comes up running with some nifty graphics and human interactive computer exercises. The EPROM itself is removable, so you can erase it and reprogram it or you can put other EPROMs in it's place. Each of these demonstrators has been tested and is guaranteed to work properly. We picked up a small quantity of them through a special purchase, and are able to offer them to you only until this quantity is depleted. Rare and useful items, they won't last long. So order your's today!

#400-400 TIMEX EPROM 1 lb. \$19.95



ZX-Profile-2068

Just released is the all new ZX Profile for the TS2068. See our description of the TS1000/1500 version for specific details. This TS2068 version makes use of all available memory for your data. The eight page documentation comes with a coupon for a free 100 page instruction manual. This is

probably the most versatile data base for the TIMEX computers and is now available for the TS2068 as well. Start making some serious use of that new computer and order your ZX Profile-2068 today!

#290-601 ZX Profile-2068 1 lb. \$29.95

MORE!

Video Command Joysticks

We can't get the 2890 Command sticks anymore from TIMEX. But these new Video Command versions are so close you'll hardly notice the difference. Why? Because they're the very same units TIMEX was selling! We found the original manufacturer and now can offer you essentially the same joysticks. There are some slight differences in appearance,

but the mechanism is exactly the same. They have a standard joystick plug, so they'll work with many computers besides the TS2068. These are of top quality and are fully warranted for one full year. Jazz up the excitement of your computer games with a couple of Video Command Joysticks! 100-610 Vid.Com. Joysticks 1 lb. \$14.95



Textwriter 2068

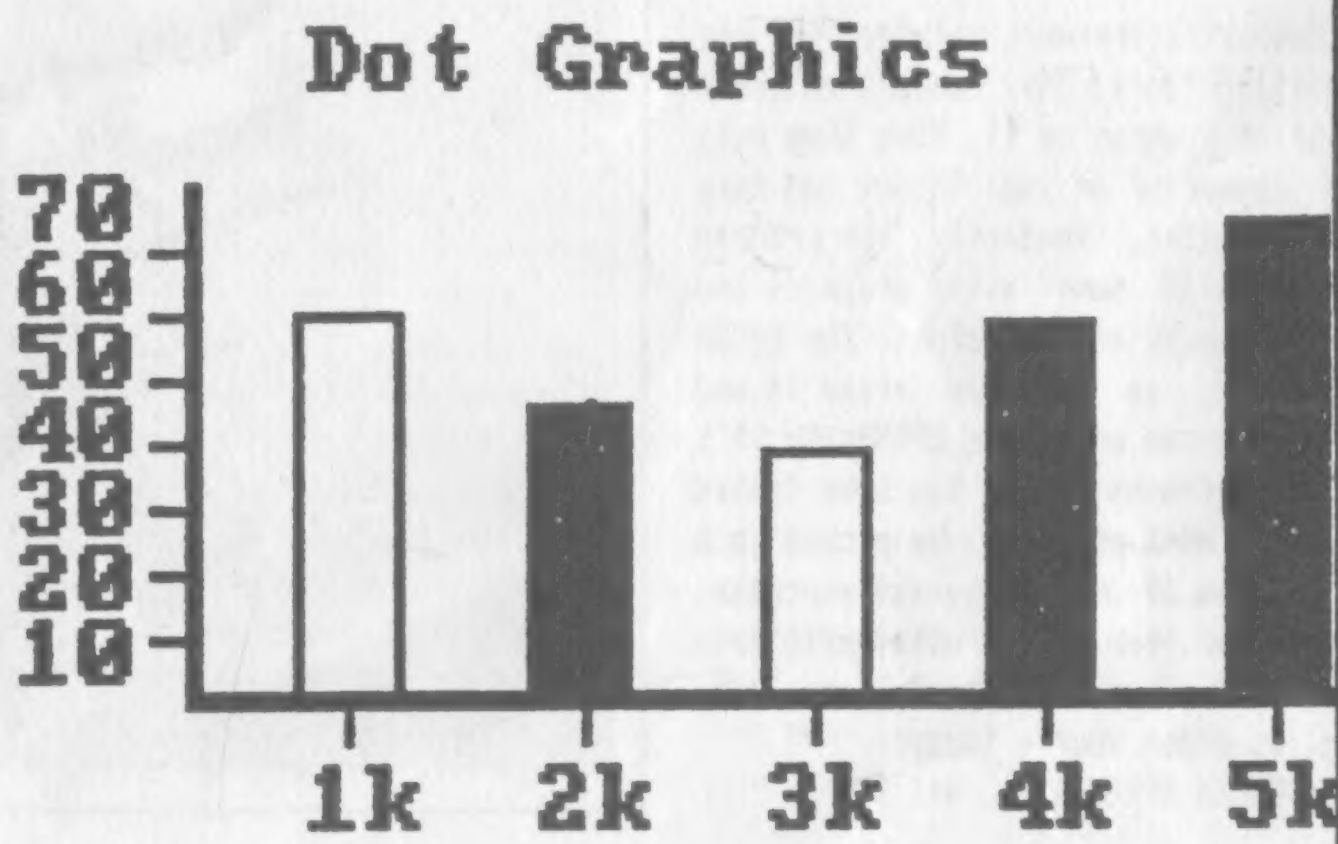
At last, serious word processing for the 2068. Textwriter 2068 is our latest word processing program and it's designed for complete compatibility with your TS2068 computer system. Of course it offers the text editing features of a full function word processor. Insert, Delete, right and left margin justification, and more. But the best thing about it is that it's custom

designed to work with our TS2068 Centronics Parallel Printer interface. Load it onto your computer and then tell it what kind of printer you're using. You then get printouts as wide as your printer can print! Pair the program and interface with our full size MT-88 or Gorilla printers for really professional results. #608-601 Textwriter 2068 1 lb. \$29.95

To dress up your report or to emphasize a point you can expanded print at 5 CPI, expanded print at 8.25 CPI, or 10 characters per inch for up to 80 columns, or 16.5 characters per inch for up to 132 columns. Double strike, italics & emphasized style.

For scientific reports you can use Superscript (E=MC²) and Subscript (H₂O)

Phenomenal price & performance--- for as little as \$399 Spirit offers performance normally associated with high



Sample Printout Siekosha-Gorilla



TS2068 Software NOTICES

Through some special purchases, we now have a very good stock of TIMEX brand software for the 2068 computer. We even have a good stock of cartridges! I must say that suppliers are becoming harder and harder to find, however. Unlike the 2068 software manufactured by non-TIMEX companies, these titles will never be produced again. So far, we've been pretty successful at replenishing supplies. But that won't be the case for much longer. If you want to get any of these titles, I encourage you to order now.

Item No.	TS2068 Software Title	Price	In Stock
80	Home Improve. Planner	19.95	*
81	Androids	19.95	*
82	Language Usage	19.95	*
83	Checkbook Manager	19.95	*
84	Budgeter	24.95	*
85	Pers. Portfolio Mgr.	19.95	*
86	Casino I	15.95	*
87	Crossfire	19.95	*
88	States & Capitals	15.95	*
89	Chess	19.95	*
90	Hungry Horace	19.95	*
91	Horace Goes Skiing	19.95	*
92	Crazybugs	19.95	*
93	Fun Golf	15.95	*
94	Auto Analyzer	24.95	*
95	Math Wizardry I	15.95	*
96	Math Wizardry II	15.95	*
97	Penetrator	19.95	*
98	Flight Simulator	24.95	*
99	Blind Alley	19.95	*
100	Guardian	15.95	*
101	Vu-File	24.95	*
102	Vu-Calc	24.95	*
103	Word Play I	15.95	*
104	Word Play II	15.95	*
105	Wordcross	15.95	*
106	Personal Home Finance	19.95	*
107	Vu-3D	24.95	*
108	Quadra Chart	19.95	*
109	Horace and the Spiders	19.95	*
110	Capitalization Master	15.95	*
Cartridges			
111	States & Capitals	24.95	*
112	Androids	34.95	*
113	Flight Simulator	34.95	*
114	Casino I	24.95	*
115	Budgeter	29.95	*

Discontinued Items

Please Note These Deletions:		
Item No.	Product	Status
200-355	Alph 81 Printer	Deleted
200-356	Vic/64 Cable for "81"	Deleted
119-582	Int-Adv. 2068 Guide	Deleted
119-584	C64 Graphics & Sound	Deleted
189-326	MKIV Keyboard Kit	Deleted
225-325	ADDON Numeric Pad	Deleted
100-300	TS1518 Ctg. Player	Deleted
230-412	C64 RS232	Deleted
230-300	Sgl. Superdrive	Deleted
230-310	Dual Superdrive	Deleted
125-725	Cosmic Gorilla 2068	Deleted
125-901	Mon/Dis 2068	Deleted

Price Changes

Please Note These Price Changes:		
Item No.	Product	New Price
100-124	TS2068 Computer	\$149.95
100-350	TS2040 Printer	\$69.95
214-450	DNC 6500 Monitor	\$449.95
230-400	4 Port Ex. System	\$49.95
101-361	C-64 CPI	\$49.95
300-164	Port.C64	\$999.95
100-216	TIMEX 16K RAM	\$29.95

Discount Policy

No Retroactive Pricing Notice
This supplement contains several products with prices discounted. Every time we lower a price, we get a few requests for credit from customers who paid the higher price. As our ordering information states, our prices are subject to change at any time. Discounts are only possible if our cost goes down. If you paid a higher price, you bought when our cost was higher. We reserve the right to make a profit... which is only possible when we sell something for more than it costs us. To avoid any hard feelings and misunderstandings, we're letting you know ahead of time: Discounted Prices Apply Only To New Orders And Only While Supplies Last.

Sample Printout Mannesmann-Tally Printer



Standard Characters -----
! " # \$ % & ' () * + , - . /
0 1 2 3 4 5 6 7 8 9 : ; < = > ?
@ A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z [\] ^ _
` a b c d e f g h i j k l m n o
p q r s t u v w x y z { | } ~

FULL DOT GRAPHICS

